

Service Manual

AV9000 /K1G, /N1G, /S1G, /U1B

AV Pre Tuner

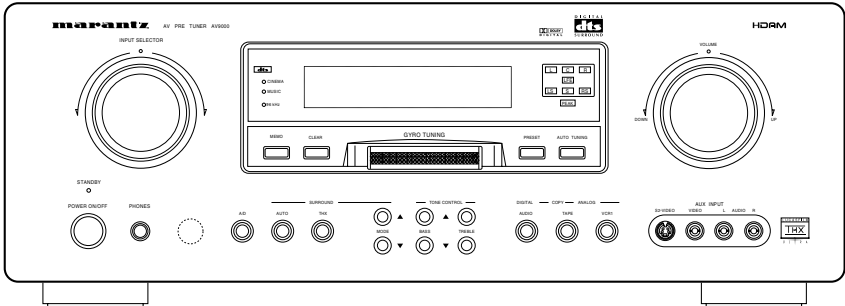


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Please use this service manual with referring to the user guide (D.F.U) without fail.

marantz®

- AV9000 -

MARANTZ DESIGN AND SERVICE

Using superior design and selected high grade components, **MARANTZ** company has created the ultimate in stereo sound. Only original **MARANTZ** parts can insure that your **MARANTZ** product will continue to perform to the specifications for which it is famous.

Parts for your **MARANTZ** equipment are generally available to our National Marantz Subsidiary or Agent.

ORDERING PARTS :

Parts can be ordered either by mail or by Fax.. In both cases, the correct part number has to be specified.

The following information must be supplied to eliminate delays in processing your order :

1. Complete address
2. Complete part numbers and quantities required
3. Description of parts
4. Model number for which part is required
5. Way of shipment
6. Signature : any order form or Fax. must be signed, otherwise such part order will be considered as null and void.

USA

MARANTZ AMERICA, INC.
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KOREA

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3GA, HANGANG-RO, YONGSAN-KU, SEOUL
KOREA
PHONE : +822 - 3232 - 155
FAX : +822 - 3232 - 154

SHOCK, FIRE HAZARD SERVICE TEST :

CAUTION : After servicing this appliance and prior to returning to customer, measure the resistance between either primary AC cord connector pins (with unit NOT connected to AC mains and its Power switch ON), and the face or Front Panel of product and controls and chassis bottom.

Any resistance measurement less than 1 Megohms should cause unit to be repaired or corrected before AC power is applied, and verified before it is return to the user/customer.

Ref. UL Standard No. 1492.

In case of difficulties, do not hesitate to contact the Technical
Department at above mentioned address.

1. TECHNICAL SPECIFICATIONS

FM TUNER SECTION

Frequency Range	87.5 – 108.0 MHz
Usable Sensitivity	IHF 1.8 μ V / 16.4 dBf
Signal to Noise Ratio	Mono / Stereo 76 / 72 dB
Distortion	Mono / Stereo 0.2 / 0.3 %
Stereo Separation	1 kHz 45 dB
Alternate Channel Selectivity	\pm 400 kHz 60 dB (U version) \pm 300 kHz 60 dB (/K, /N, /S version)
Image Rejection	98 MHz 70 dB
Tuner Output Level	1 kHz, 75 kHz Dev 800 mV (U version) 1 kHz, 40 kHz Dev 800 mV (/K, /N, /S version)

AM TUNER SECTION

Frequency Range	520 – 1710 kHz (/U version) 531 – 1602 or 520 – 1710 kHz (/K version) 531 – 1602 kHz (/N, /S version)
Signal to Noise Ratio	50 dB
Usable Sensitivity	Loop 400 μ V
Distortion	400 Hz, 30 % Mod. 0.5 %
Selectivity	\pm 20 kHz 70 dB (U version) \pm 18 kHz 70 dB (/K, /N, /S version)

AUDIO SECTION

THD Front (20 Hz – 20 kHz)	0.01 % 1 V
Input Sensitivity / Impedance for 1 V output	
Linear	240 mV / 47 kohms
Signal to Noise Rate (IHF A) 0.5 V input (Volume : -10 dB)	
Linear	80 dB

VIDEO

Television Format	NTSC (/U version) PAL/NTSC (/K, /N, /S version)
Input Level / Impedance	1 Vp-p / 75 ohms
Output Level / Impedance	1 Vp-p / 75 ohms
Video Frequency Response	5 Hz to 8 MHz (– 1 dB)
S/N	60 dB

GENERAL

Power Requirement	AC 120V 60 Hz (/U version) AC 220 50 / 60 Hz (/K version) AC 230V 50 Hz (/N, /S version)
Power Consumption	55W
Dimension (MAX)	
Width	17 - 3/8 inches (440 mm)
Height	6 - 5/16 inches (159 mm)
Depth	14 inches (355 mm)
Weight	17.7 lds. (8 kg)

ACCESSORIES

Remote Control Unit RC-18SR	1
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Dolby Digital(AC-3) SECTION

Output Level (Master Volume is set 0 dB)

Front L / R, CENTER, SURROUND L / R	
1 kHz, 0 dB FS INPUT	2.4 V
SUBWOOFER (Master Volume is set -5 dB)	
30 Hz, 0 dB FS INPUT	3.8 V

Frequency Response

Front L/R, CENTER, SURROUND L / R (LARGE)	
20 Hz – 20 kHz	-1 dB

Total Harmonic Distortion (Digital)

Front L / R, CENTER, SURROUND L / R (1 kHz)	0.01 % or less
SUBWOOFER (30 Hz)	0.4 % or less
Signal to Noise Ratio (IHF-A)	96 dB
Channel Separation (1 kHz)	70 dB

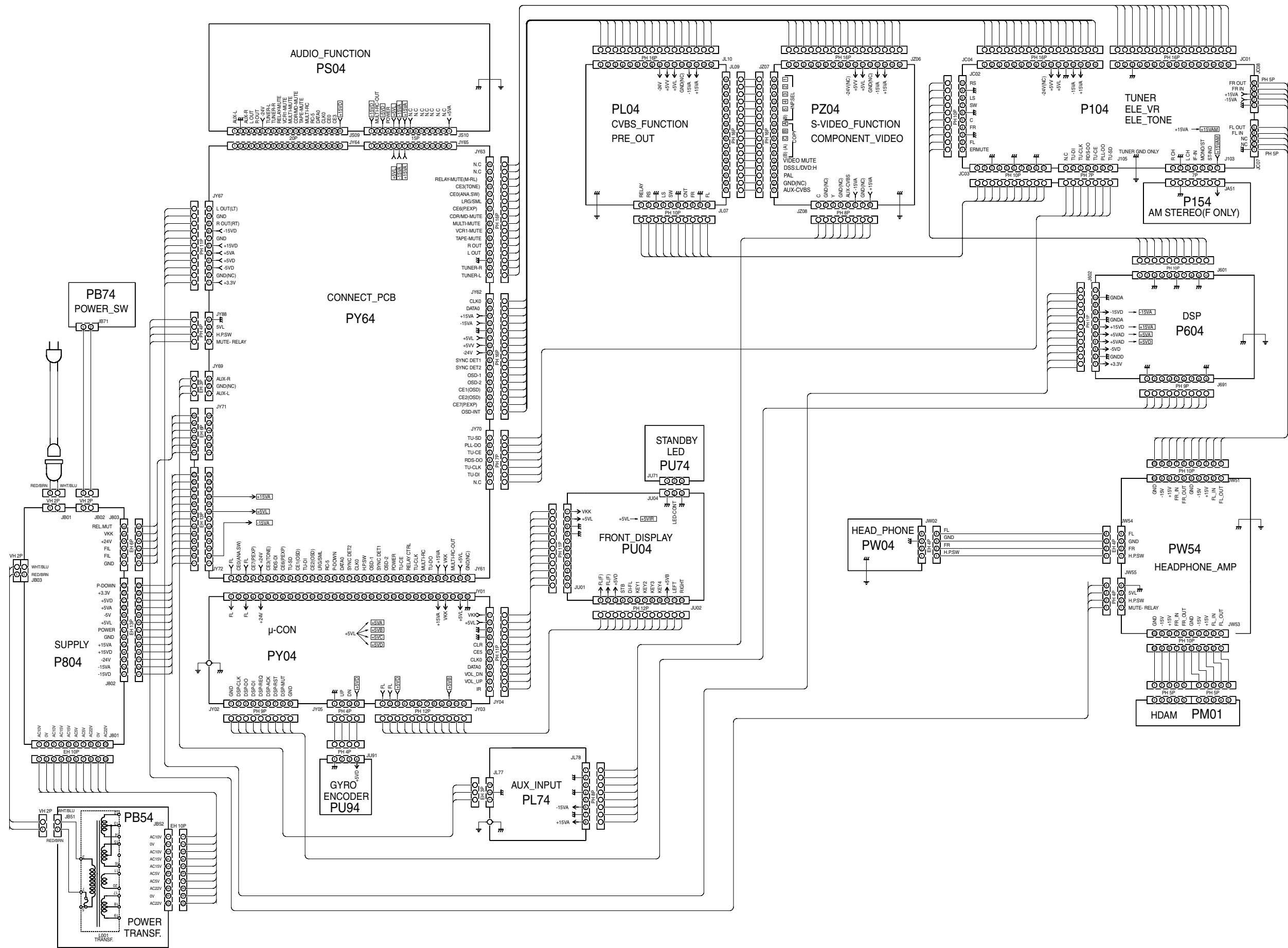
Specifications subject to change without prior notice.

Remark : Bass signal output from Sub Woofer terminal for AV9000

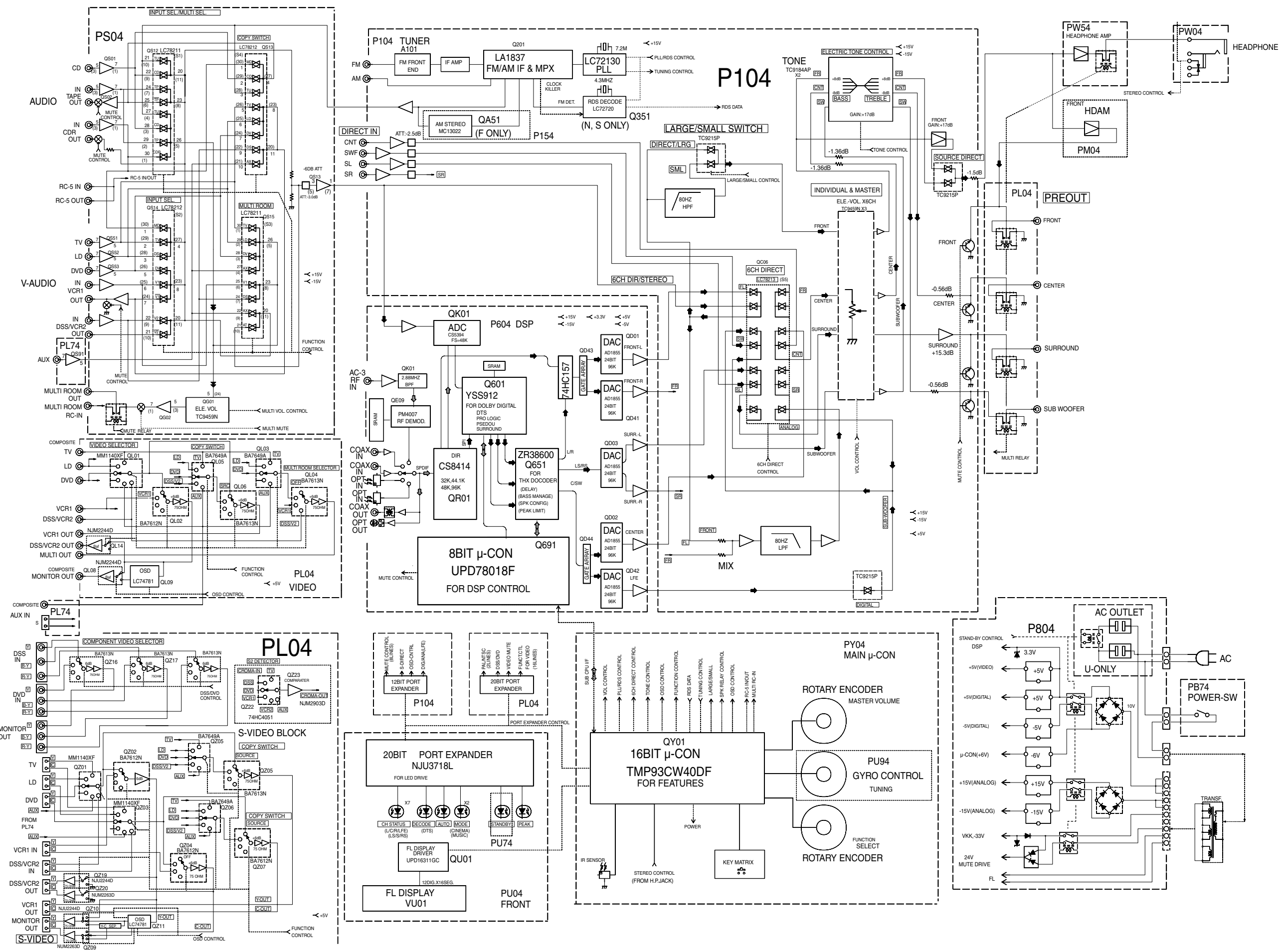
Sub woofer output is not active while all surround modes. Please refer to the following table.

SPK setup				SubWoofer Output by Surround mode									
Sub Woofer	Front	Center	Rear	THX cinema (5.1ch decoding)	DOLBY or DTS (5.1ch decoding)	THX cinema (Pro Logic decoding)	DOLBY (Pro Logic decoding)	STEREO	AUTO (5.1ch decoding)	AUTO (Stereo decoding)	Mono		
ON	Large	Large	Large	LFE	LFE	none	none	L+R	LFE	L+R	none		
			Small	LFE+LS+RS	LFE+LS+RS	none	none	L+R	LFE+LS+RS	L+R	none		
			None	LFE	LFE	none	none	L+R	LFE	L+R	none		
			Small	Large	LFE+C	LFE+C	C	C	L+R	LFE+C	L+R	C	
				Small	LFE+C+LS+RS	LFE+C+LS+RS	C	C	L+R	LFE+C+LS+RS	L+R	C	
				None	LFE+C	LFE+C	C	C	L+R	LFE+C	L+R	C	
		None	Large	LFE	LFE	none	none	L+R	LFE	L+R	none		
			Small	LFE+LS+RS	LFE+LS+RS	none	none	L+R	LFE+LS+RS	L+R	none		
			None	LFE	LFE	none	none	L+R	LFE	L+R	none		
		Small	Large	Large	LFE+L+R	LFE+L+R	L+R	L+R	L+R	LFE+L+R	L+R	none	
				Small	LFE+L+R+LS+RS	LFE+L+R+LS+RS	L+R	L+R	L+R	LFE+L+R+LS+RS	L+R	none	
				None	LFE+L+R	LFE+L+R	L+R	L+R	L+R	LFE+L+R	L+R	none	
			Small	Large	LFE+L+R+C	LFE+L+R+C	L+R+C	L+R+C	L+R	LFE+L+R+C	L+R	C	
				Small	LFE+L+R+C+LS+RS	LFE+L+R+C+LS+RS	L+R+C	L+R+C	L+R	LFE+L+R+C+LS+RS	L+R	C	
				None	LFE+L+R+C	LFE+L+R+C	L+R+C	L+R+C	L+R	LFE+L+R+C	L+R	C	
			None	Large	LFE+L+R	LFE+L+R	L+R	L+R	L+R	LFE+L+R	L+R	C	
				Small	LFE+LS+RS	LFE+LS+RS	L+R	L+R	L+R	LFE+LS+RS	L+R	C	
				None	LFE+L+R	LFE+L+R	L+R	L+R	L+R	LFE+L+R	L+R	C	
	OFF	Large	Large	Large	none	none	none	none	none	none	none		
				Small	none	none	none	none	none	none	none		
				None	none	none	none	none	none	none	none		
				Small	Large	none	none	none	none	none	none	none	
					Small	none	none	none	none	none	none	none	
					None	none	none	none	none	none	none	none	
			None	Large	none	none	none	none	none	none	none		
				Small	none	none	none	none	none	none	none		
				None	none	none	none	none	none	none	none		
				Small	Large	Large	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited
						Small	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited
						None	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited
		Small	Large		Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited		
			Small		Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited		
			None		Large	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	

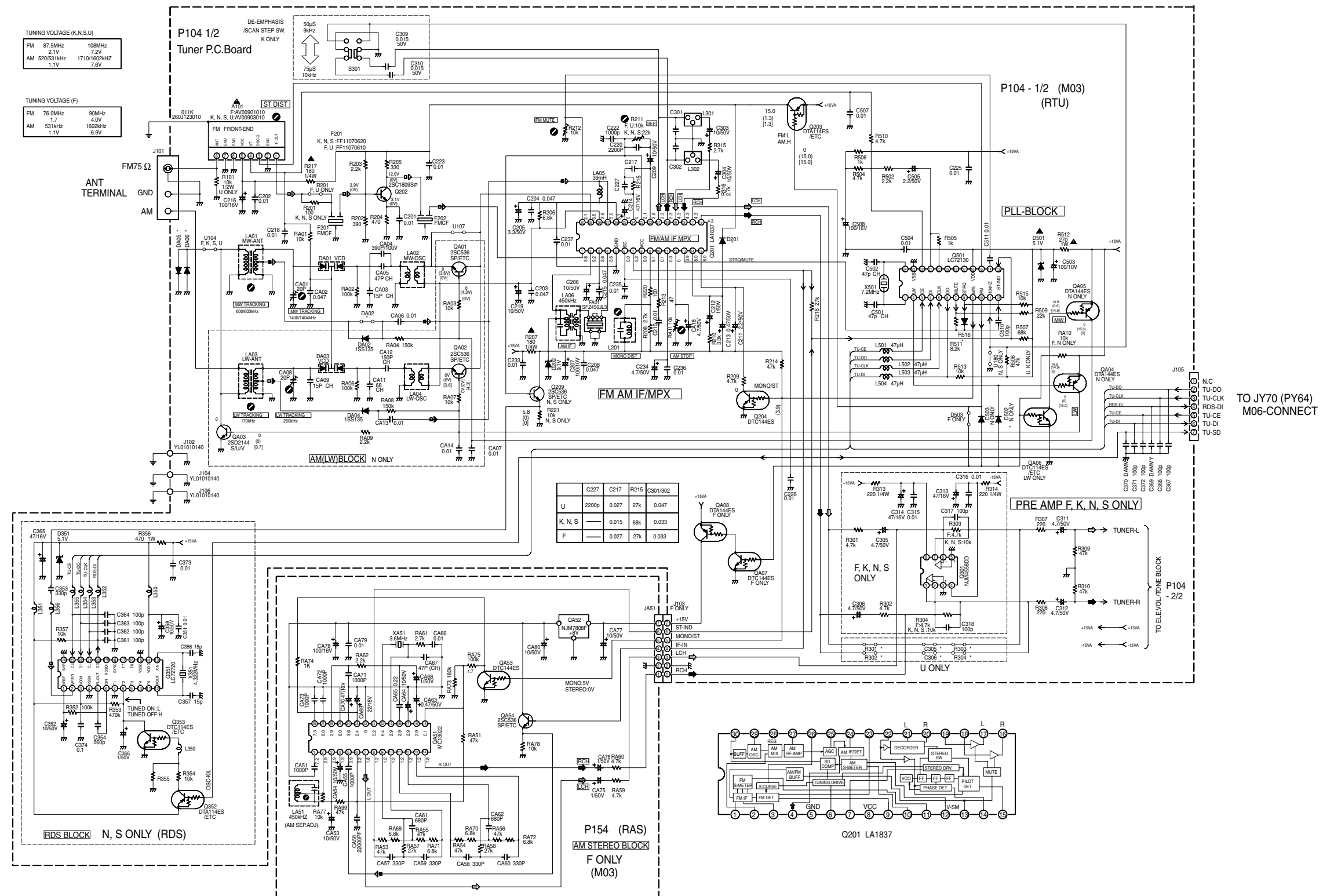
2. WIRING DIAGRAM

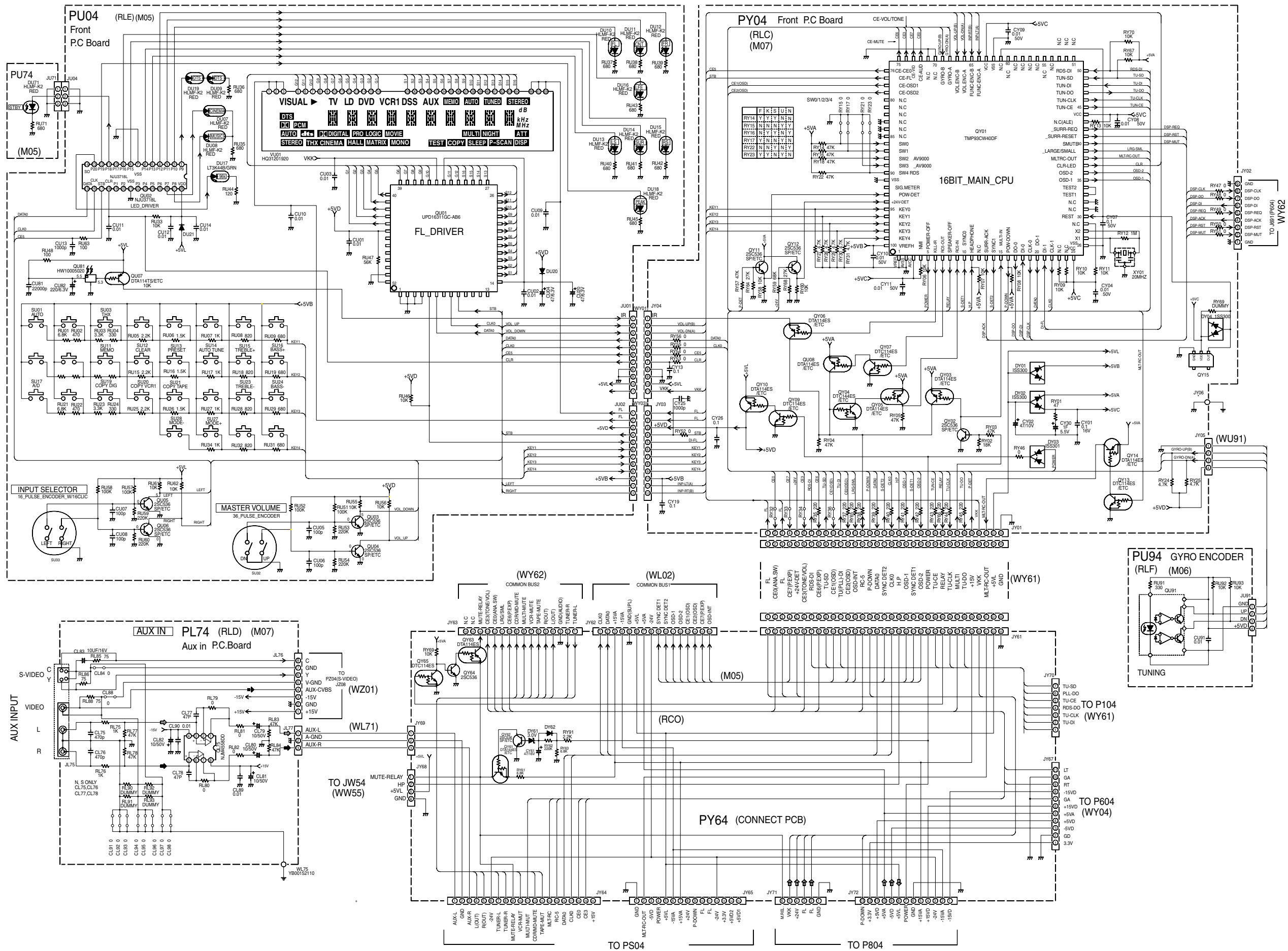


3. BLOCK DIAGRAM



4. SCHEMATIC DIAGRAM AND PARTS LOCATION (Pattern Side)



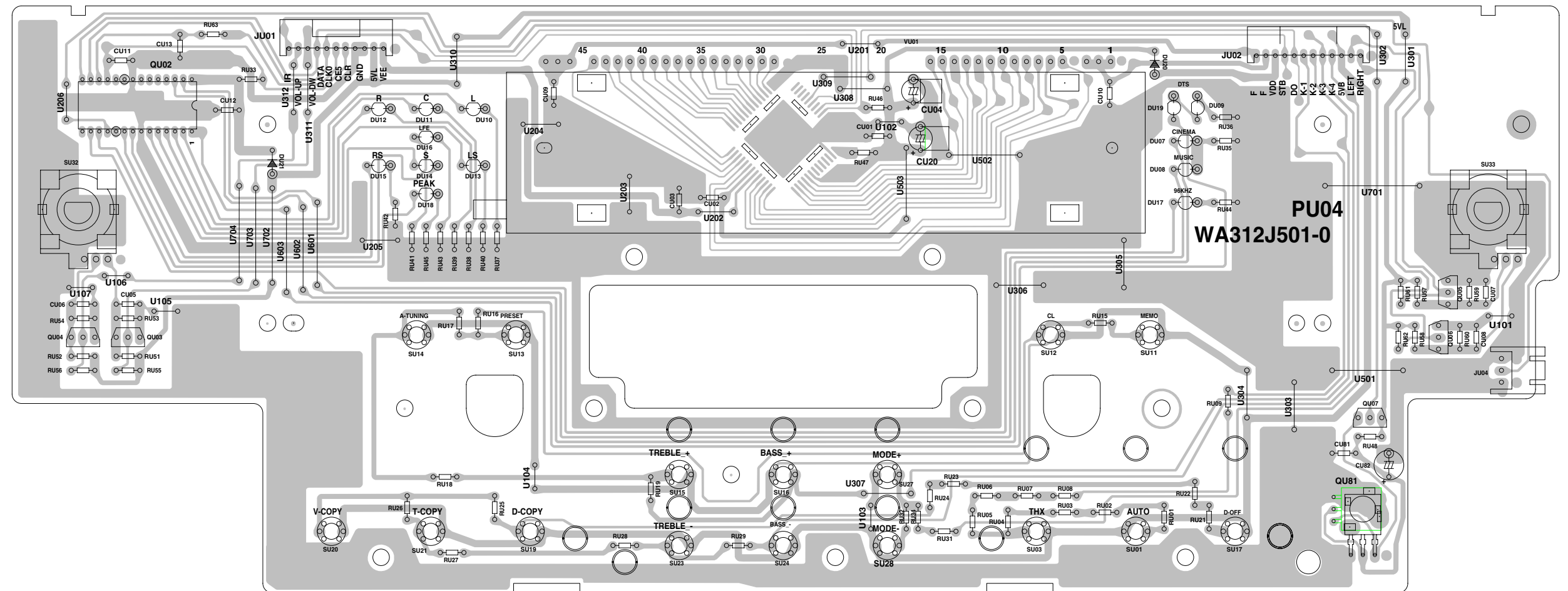


PU04

QU02
QU04 QU03

QU01

QU06 QU05
QU81QU07

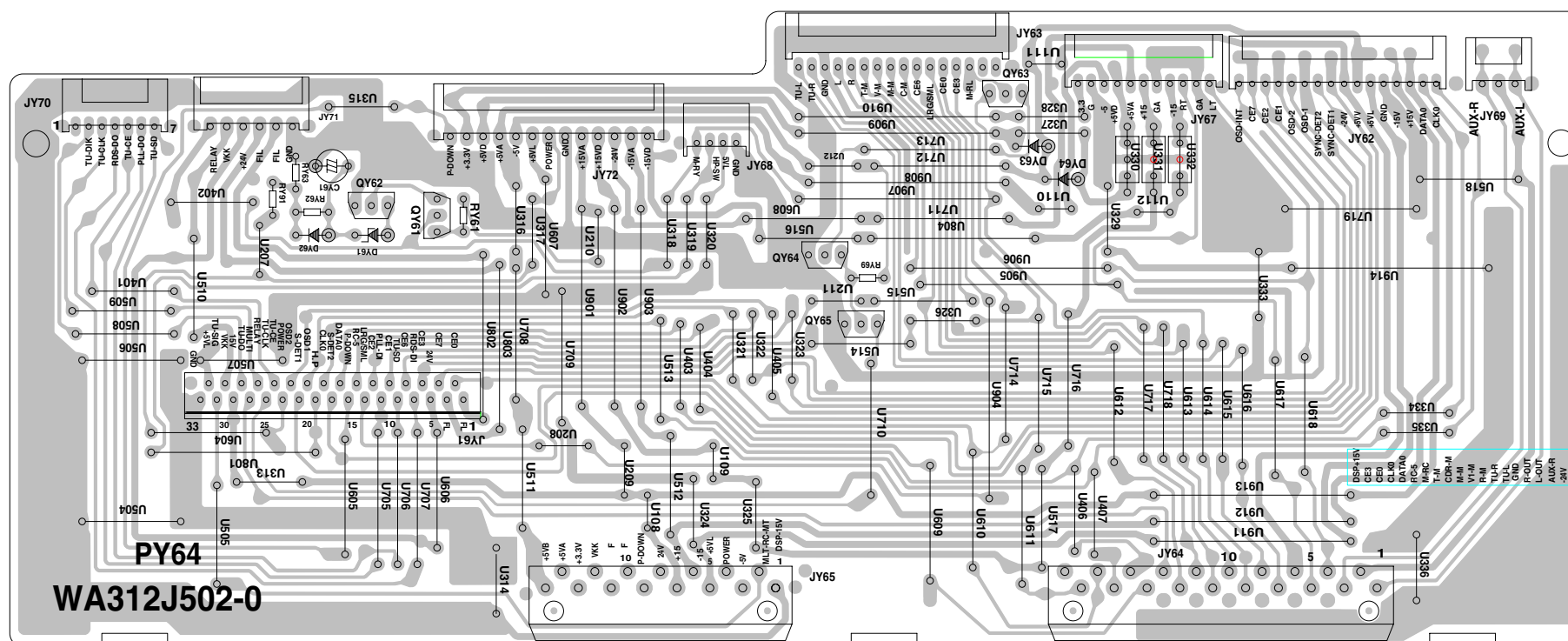


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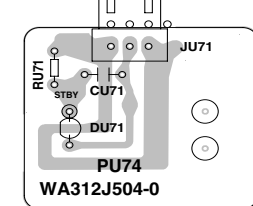
QY62 QY61

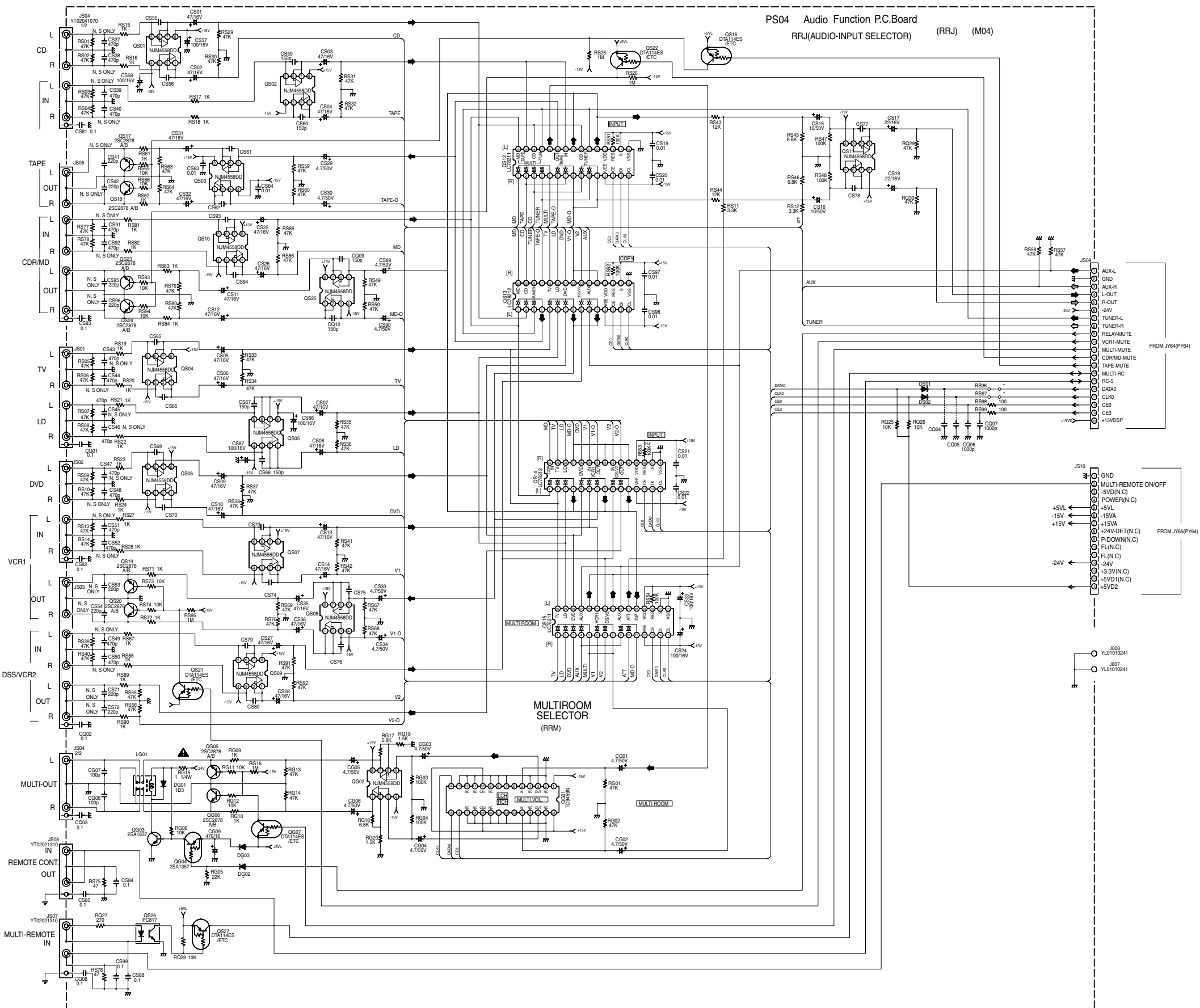
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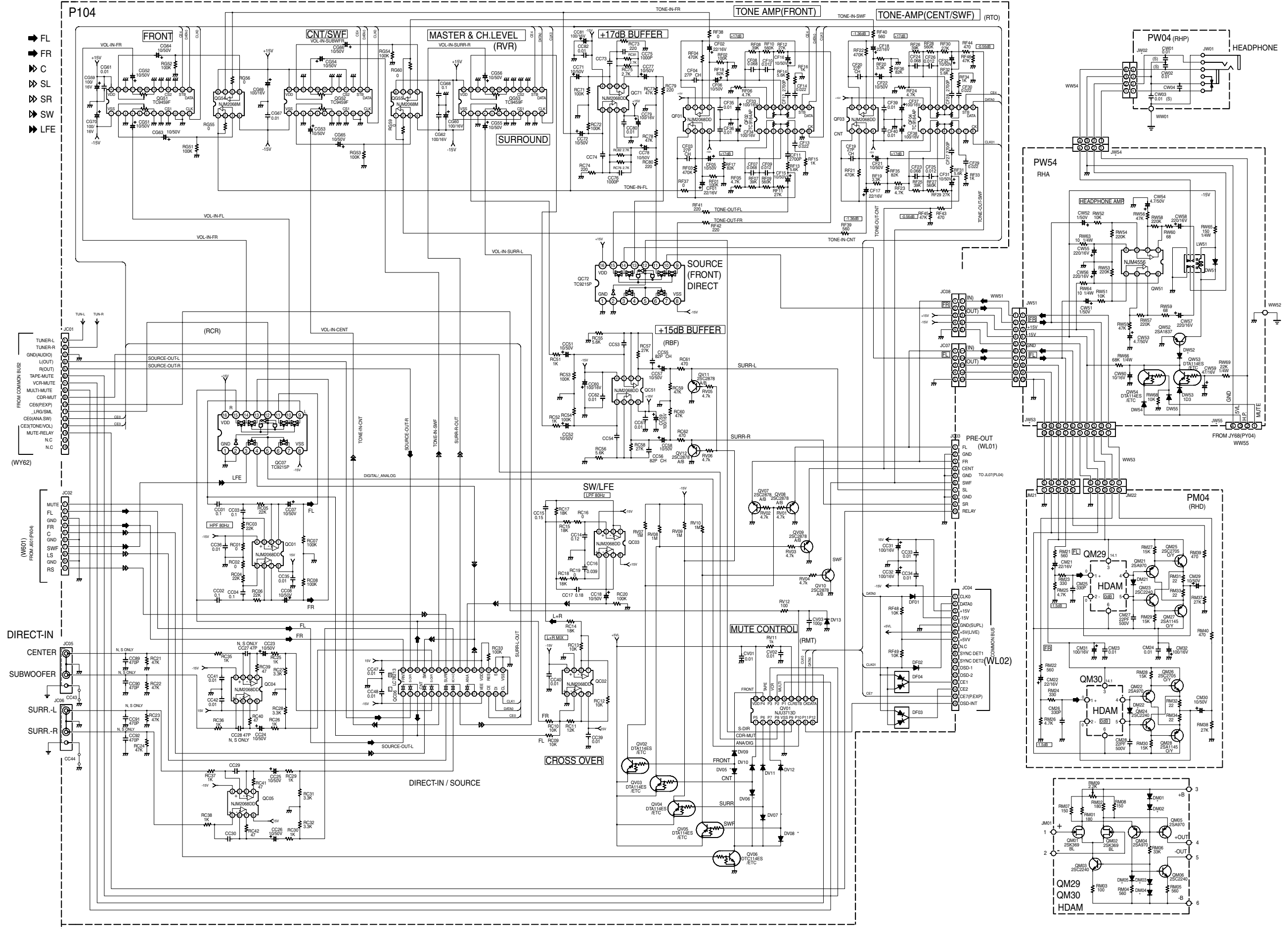


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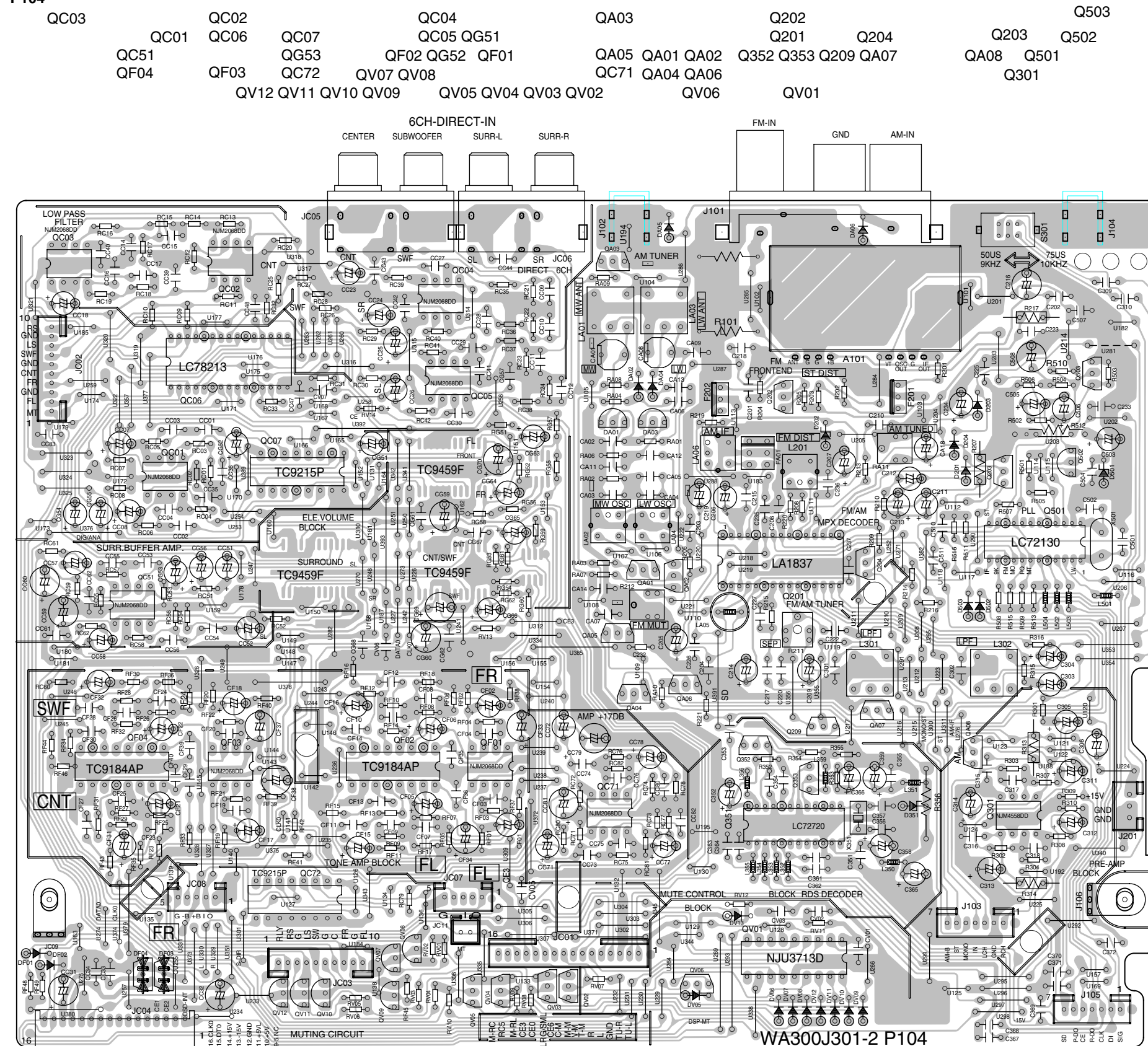




TONE/CROSS OVER/VOLUME/MUTE CIRCUIT BLOCK



P104

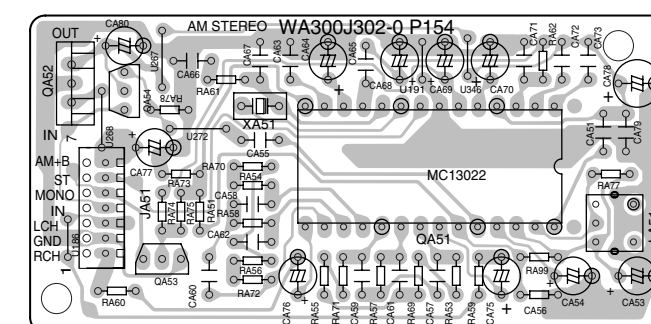


P154 (F ONLY)

QA54

QA53

QA51

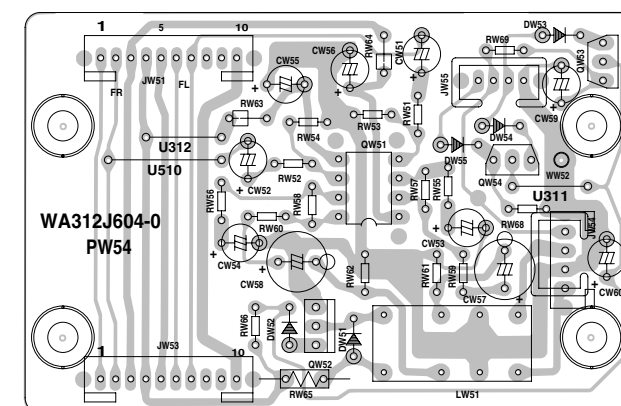


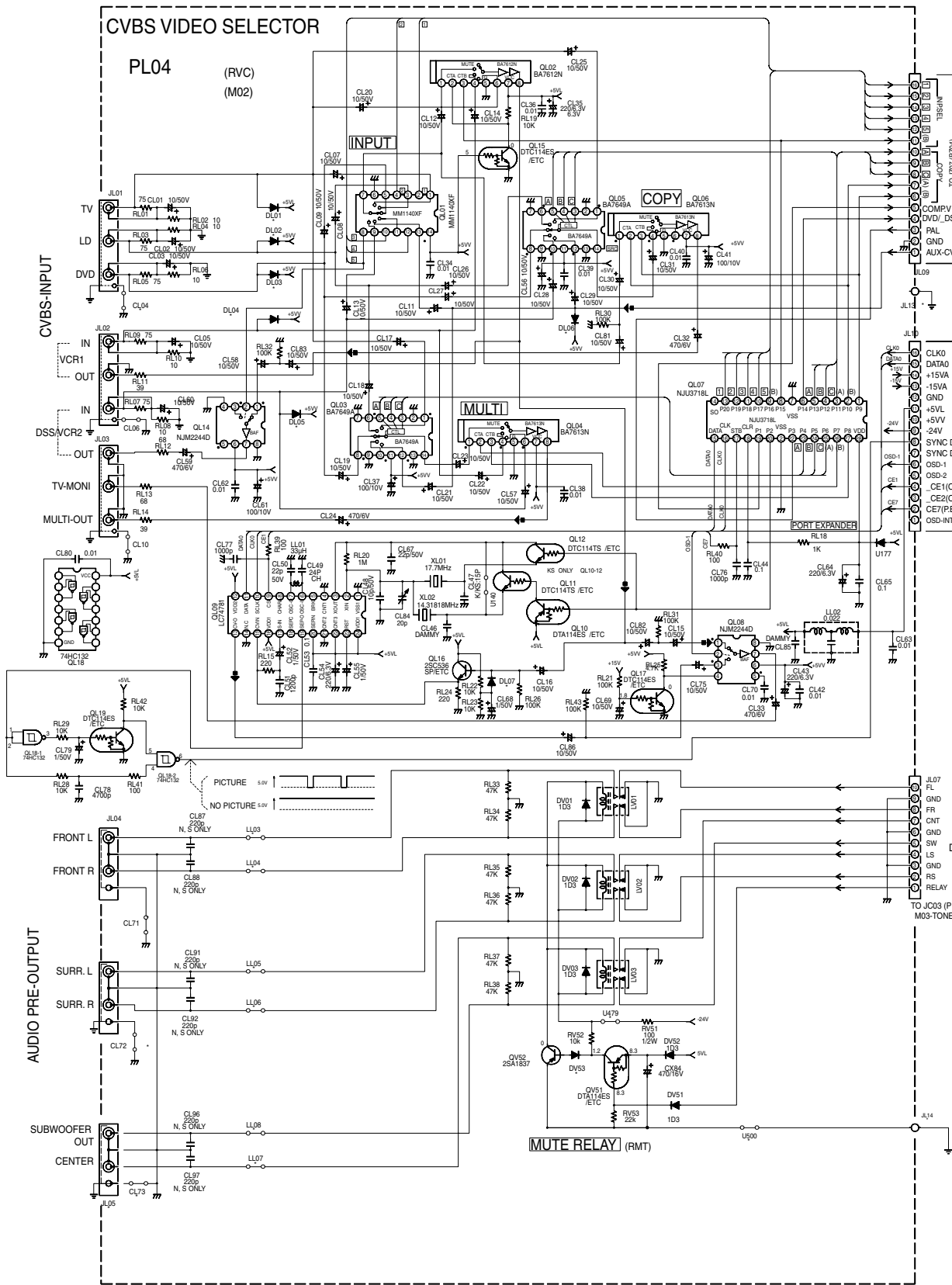
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QW51

QW54

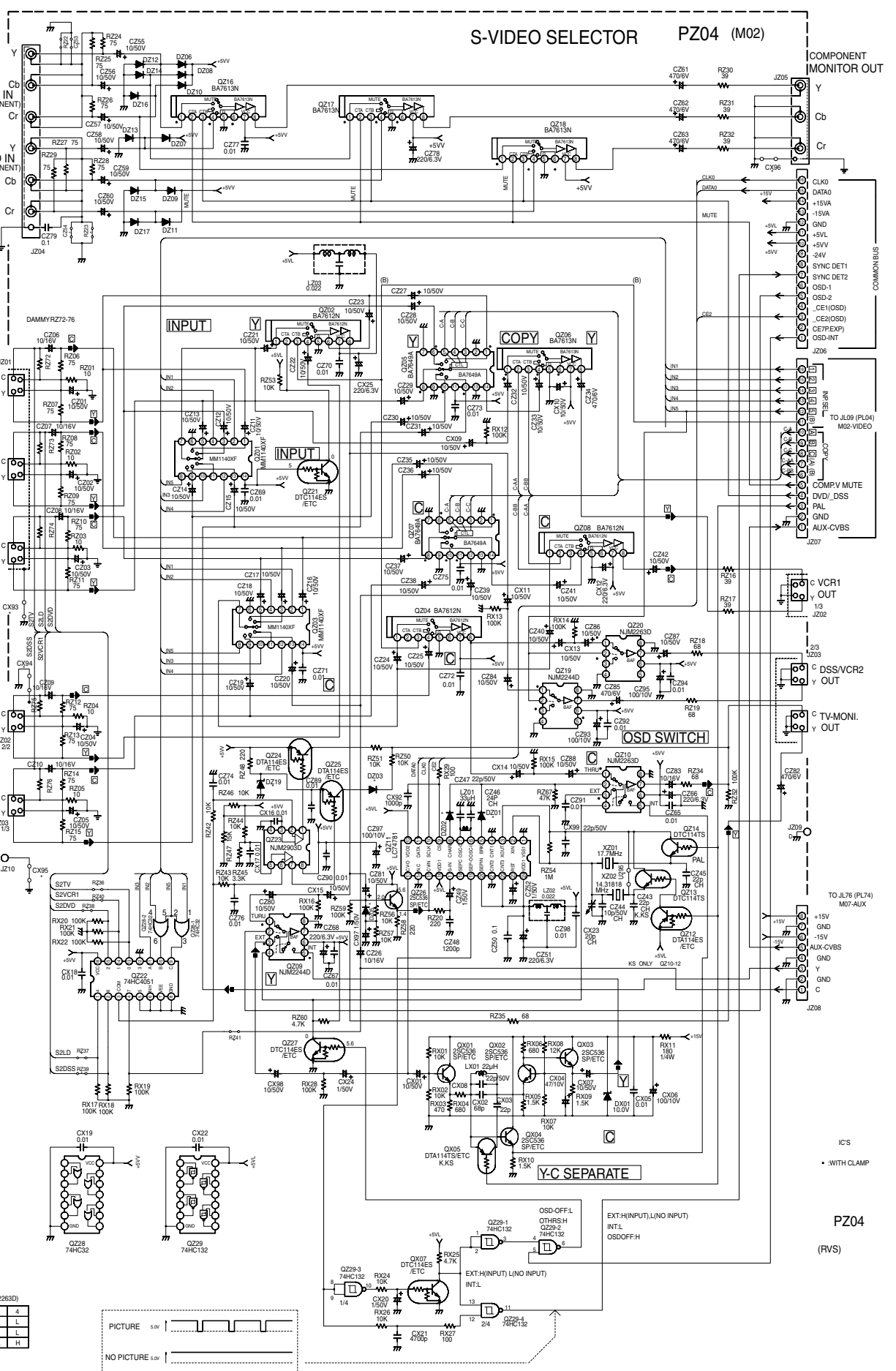
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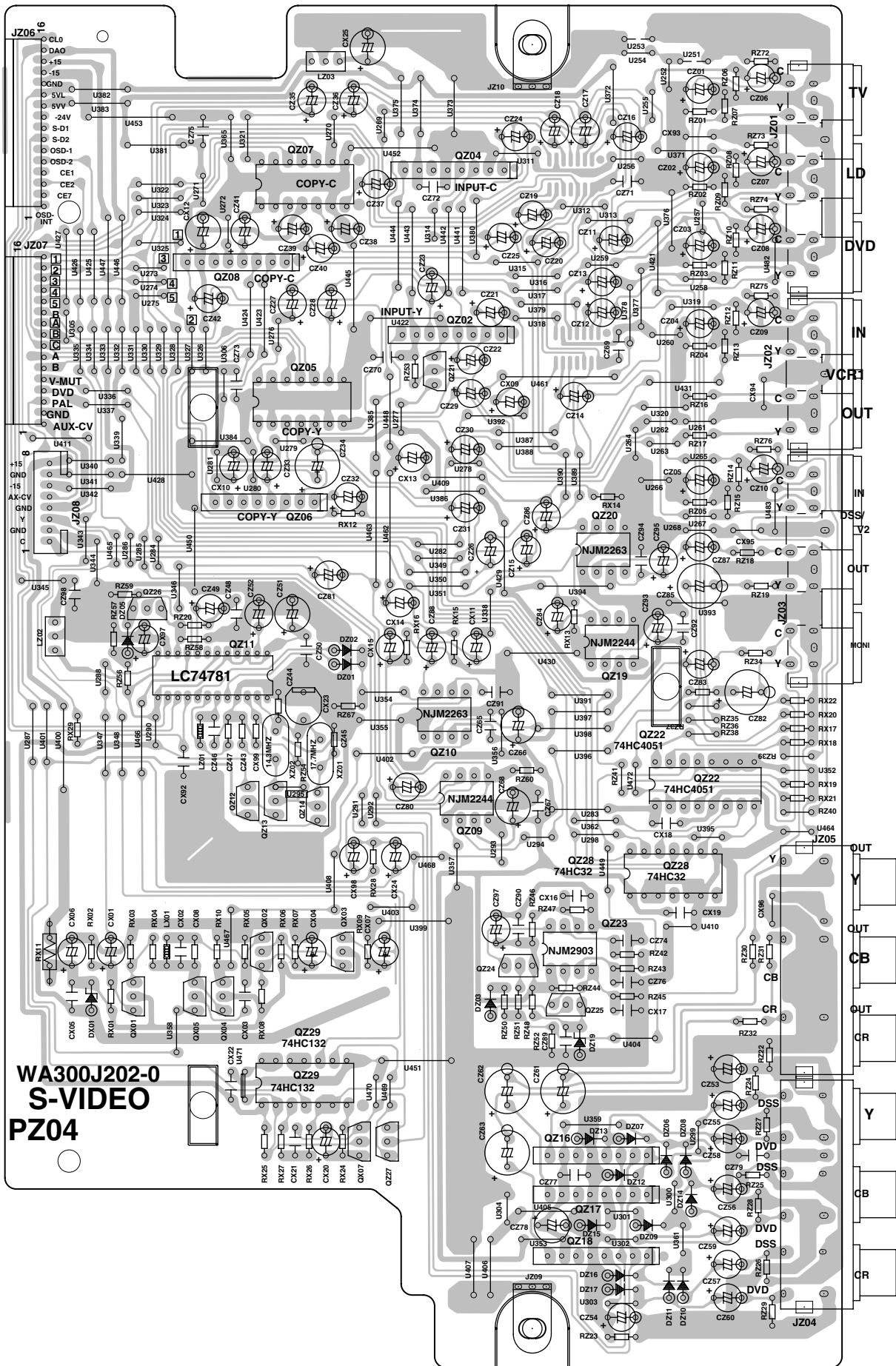


INPUT SELECTOR		COPY SWITCH		MULTI ROOM SELECTOR		INPUT SELECTOR AND COPY SWITCH	
INPUT	MM1140XD 7613	INPUT	BA7648 7613	INPUT	BA7648 7613	INPUT	MM1140XD 7613
TV	L L L L L	TV	L L L L L	TV	L L L L L	TV	L L L L L
LD	L L L L L	LD	L L L L L	LD	L L L L L	LD	L L L L L
DVD	L L L L L	DVD	L L L L L	DVD	L L L L L	DVD	L L L L L
AUX	L L L L L	AUX	L L L L L	AUX	L L L L L	AUX	L L L L L
OSD-VCR1	L L L L L	OSD-VCR1	L L L L L	OSD-VCR1	L L L L L	OSD-VCR1	L L L L L
VCR1	L L L L L	VCR1	L L L L L	VCR1	L L L L L	VCR1	L L L L L
STANDBY	L L L L L	STANDBY	L L L L L	STANDBY	L L L L L	STANDBY	L L L L L

OSD SWITCH	
THRU	L L
OSD(EXT)	H L
OSD(INT)	H L



PZ04



WA300J202-0
S-VIDEO
PZ04

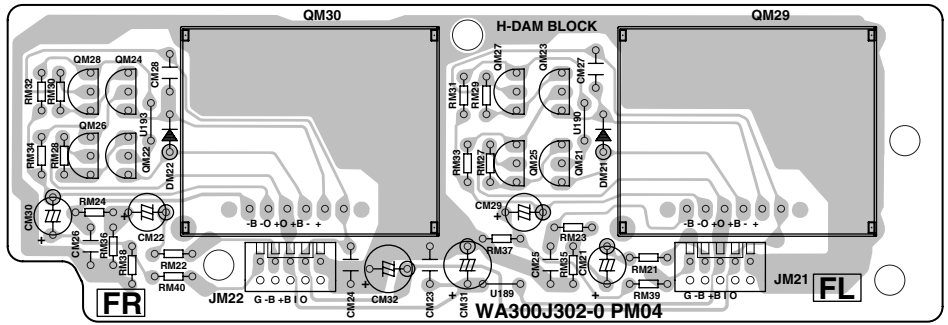
- QZ07 QZ04
- QZ08
- QZ02
- QZ21
- QZ05
- QZ06
- QZ20
- QZ26
- QZ19
- QZ11
- QZ10
- QZ22
- QZ12 QZ13 QZ14 QZ09
- QZ28
- QX02 QX03 QZ23
- QX01 QX05 QX04 QZ25
- QZ29
- QX07 QX27 QZ16
- QZ17
- QZ18

PM04

QM28 QM24
QM26 QM22

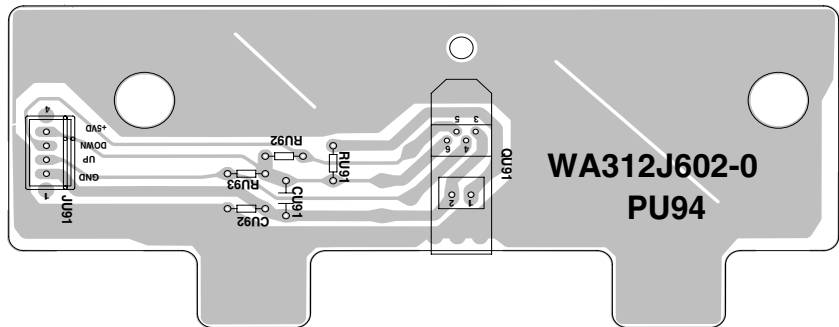
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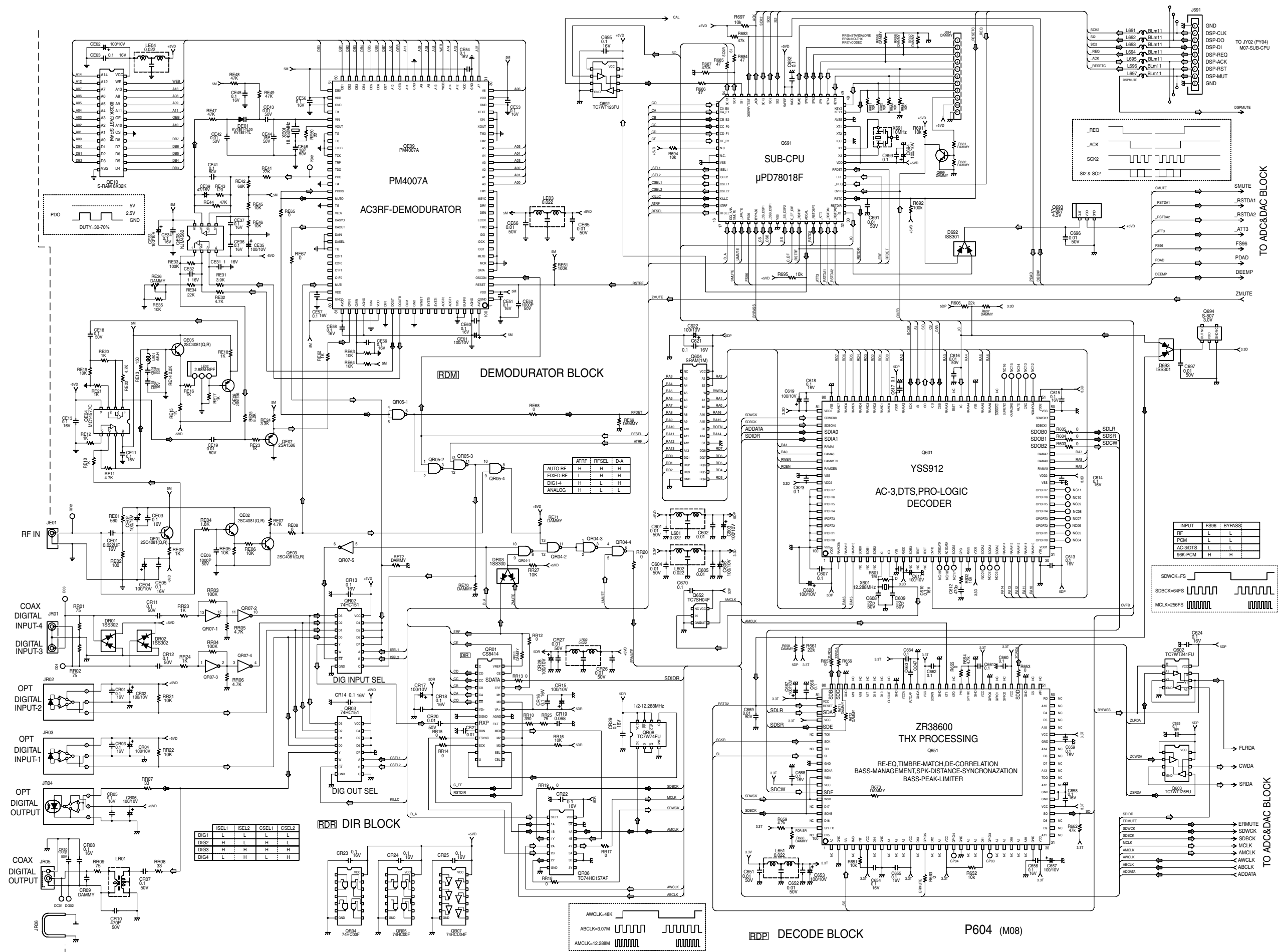
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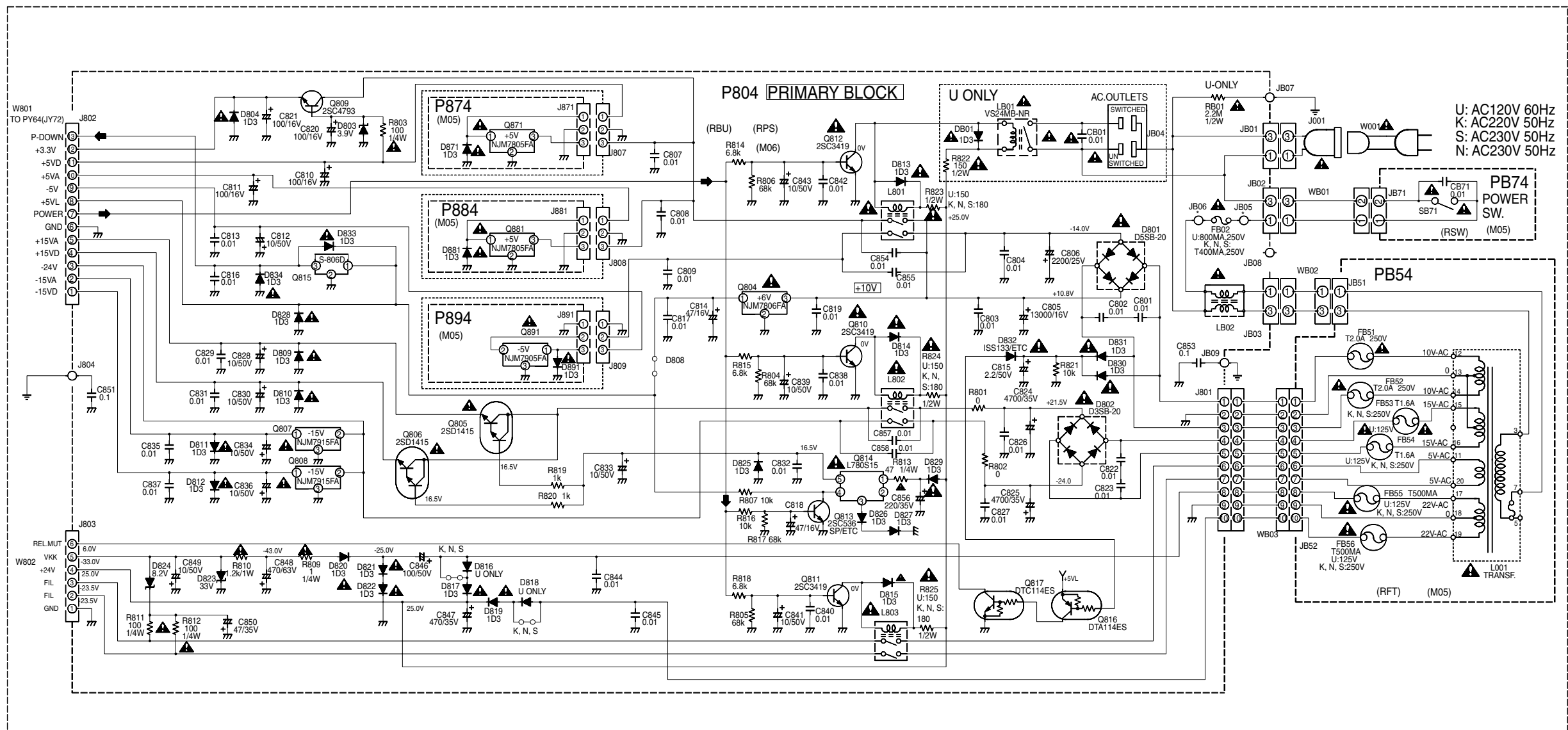


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QV52 QV51

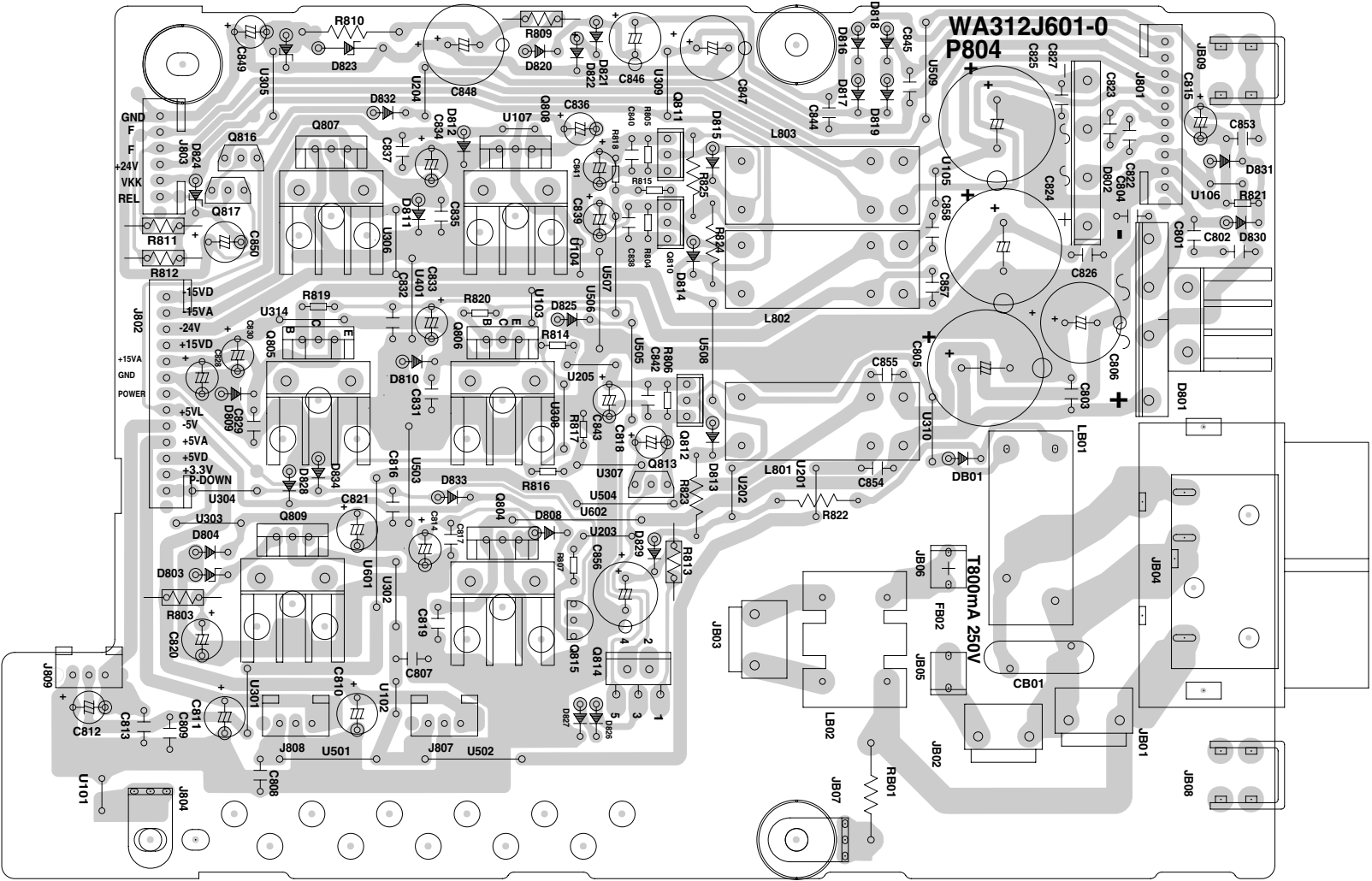




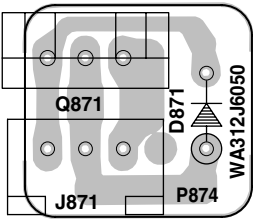


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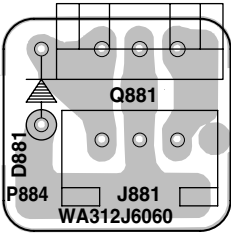
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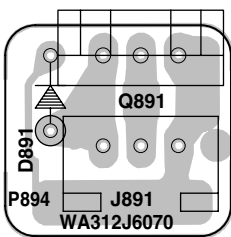
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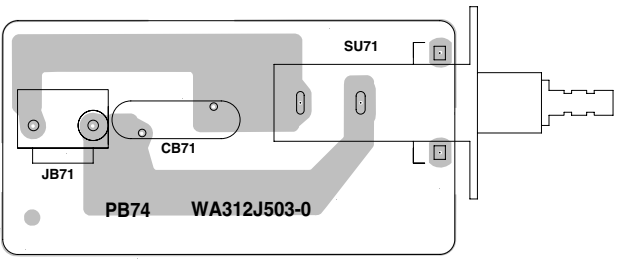
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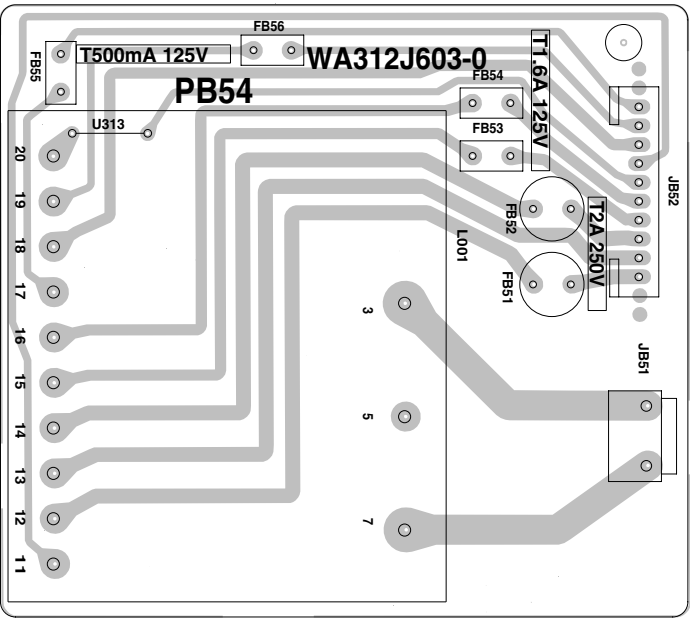
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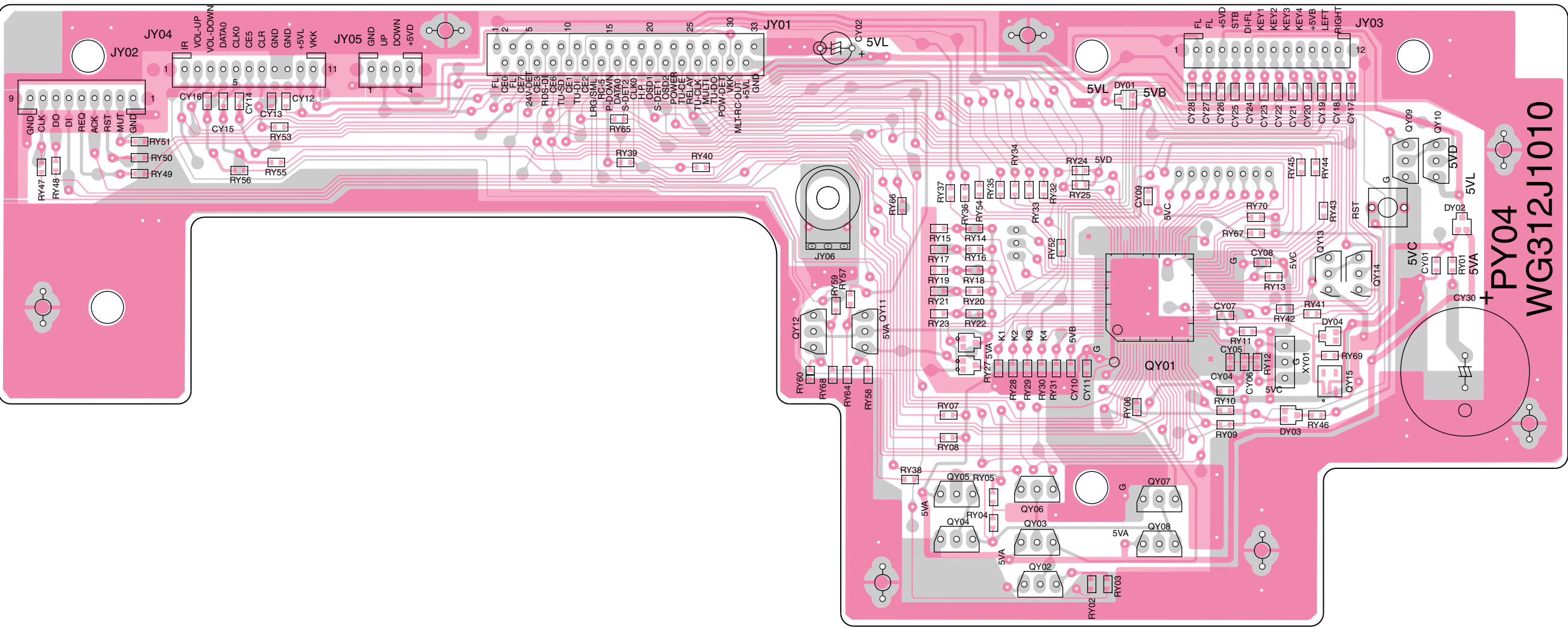
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PB54

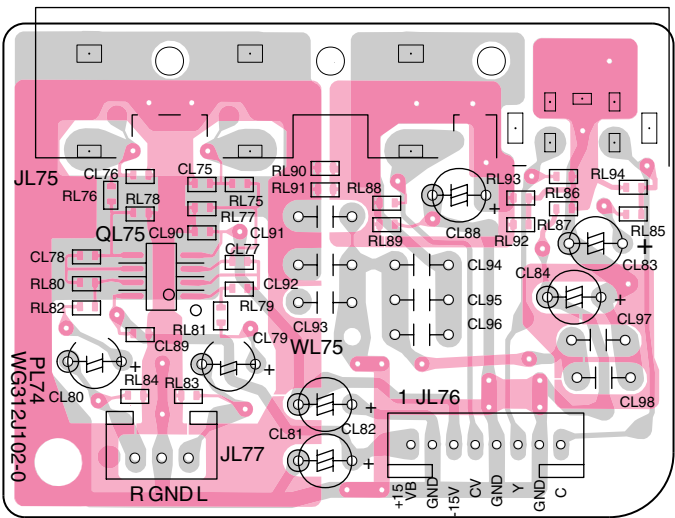


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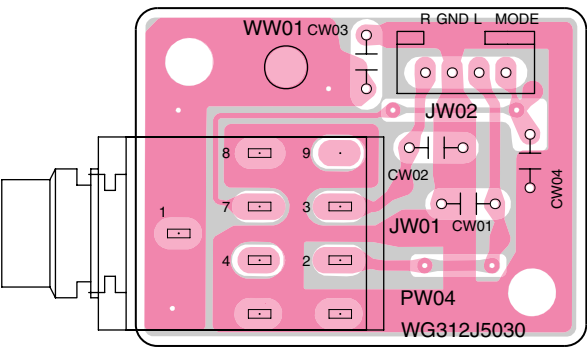


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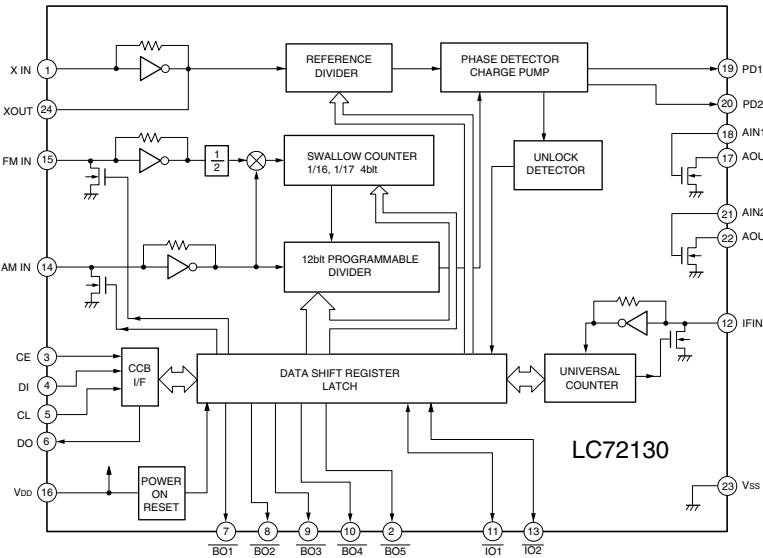
5. IC DATA

QY01:TMP93CW40DF

Pin Description						
No	Port Name	I/O	USE	Sig. Name	Act.	Description
1	VREFL	I	-	-	-	A/D VREFL.
2	AVSS	I	-	-	-	A/D VSS
3	AVCC	I	-	-	-	A/D VCC
4	NMI	I	NMI	-	-	Pull Up
5	P70/TI0	I/O	O	POWER OFF	L	
6	P71/TO1	I/O	O	KILL IR	H	
7	P72/TO2	I/O	O	RC-5 OUT	H	
8	P73/TO3	I/O	O	SPEAKER OFF	H	SPK RELAY
9	P80/INT4/	I/O	I	RC-5 IN	H	Both Edge
10	P81/INT5/	I/O	I	SYNC0	H	Rising Edge
11	P82/TO4	I/O	I	HEAD PHONE	L	
12	P83/TO5	I/O	I	-	-	Fixed
13	P84/INT6/	I/O	I	SURR. ACK	L	Both Edge
14	P85/INT7/	I/O	I	SYNC1	H	Rising Edge
15	P86/TO6	I/O	I	MULTI RC-5 IN	L	
16	P87/INT0	I/O	I	POWER DOWN	L	
17	P90/TXD0	I/O	TXD	DO0	-	I/F to SURR. uP
18	P91/RXD0	I/O	RXD	DI0	-	I/F to SURR. uP
19	P92/SCLK0	I/O	SCLK	CLK0	-	I/F to SURR. uP
20	P93/TXD1	I/O	TXD	DO1	-	I/F to ICs
21	P94/RXD1	I/O	RXD	DI1	-	I/F to ICs
22	P95/SCLK1	I/O	SCLK	CLK1	-	I/F to ICs
23	AM8/ 16	I	-	-	-	Pull Up
24	CLK	O	-	-	-	Pull Up
25	VCC	I	-	-	-	Pull Up
26	VSS	I	-	-	-	to VSS
27	X1	I	-	-	-	20MHz
28	X2	O	-	-	-	20MHz
29	EA	I	-	-	-	Pull Up
30	RESET	I	-	-	-	
31	P96/XT1	I/O	I	-	-	to VSS
32	P97/XT2	I/O	I	-	-	to VSS
33	TEST1	I	-	-	-	to TEST2
34	TEST2	I	-	-	-	to TEST1
35	PA0	I/O	O	OSD ON0	H	
36	PA1	I/O	O	OSD ON1	H	
37	PA2	I/O	O	CLR LED	L	NJU3718 CLR
38	PA3	I/O	O	MULTI RC-5 OUT	H	
39	PA4	I/O	O	LARGE/SMALL	L	LARGE = L
40	PA5	I/O	O	SMUTE	H	

Act.: Active level

Q501:LC72130



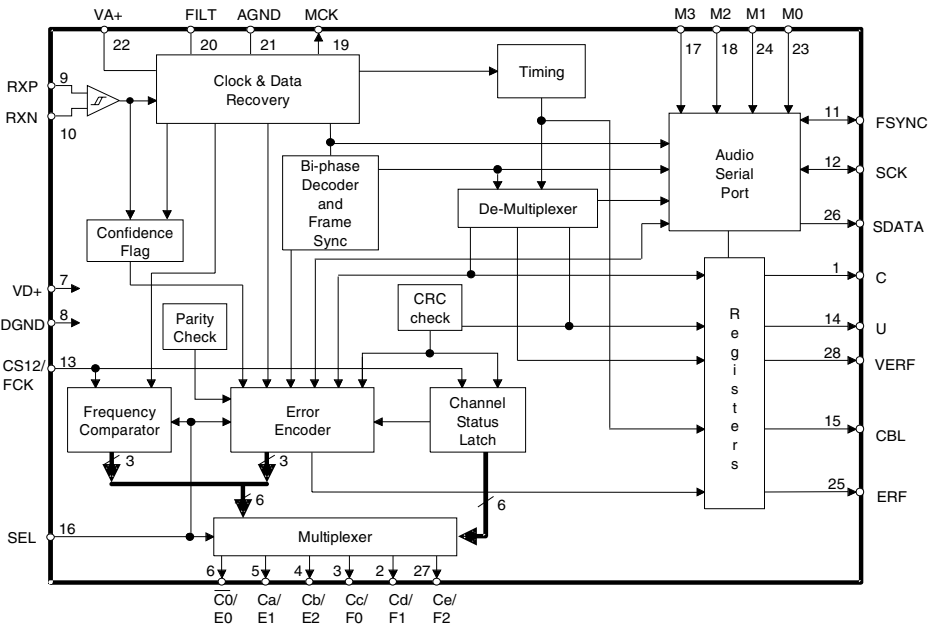
Q691:μPD78018

Pin Description						
No	Port Name	I/O	USE	Sig. Name	Act.	Description
1	P30/TO0	I/O	I	C0_E0	-	DIR Status
2	P31/TO1	I/O	I	Ca_E1	-	DIR Status
3	P32/TO2	I/O	I	Cb_E2	-	DIR Status
4	P33/TI1	I/O	I	Cc_F0	-	DIR Status
5	P34/TI2	I/O	I	Cd_F1	-	DIR Status
6	P35/PCL	I/O	I	Ce_F2	-	DIR Status
7	P36/BUZ	I/O	O	TEST_COM	H	For Check SIO0 Interface
8	P37	I/O	I	OLD_OVFB	H	keep in port for SR880MK2
9	Vss	I	-	GND	-	GND
10	P40	I/O	O	ISEL1	-	SPDIF input select
11	P41	I/O	O	ISEL2	-	SPDIF input select
12	P42	I/O	O	CSEL1	-	SPDIF output select
13	P43	I/O	O	CSEL2	-	SPDIF output select
14	P44	I/O	O	KILLC	H	Kill SPDIF output
15	P45	I/O	O	ATRF	H	Auto RF select
16	P46	I/O	O	RFSEL	H	RF select
17	P47	I/O	O	DIG_ANA	-	Digital/ Analog select
18	P50	I/O	O	SMUTE	H	Soft mute by DAC
19	P51	I/O	O	_UMUTE	L	Hard mute by Tr.
20	P52	I/O	O	FS96	H	Fs=96k set
21	P53	I/O	O	BYPASS	H	Bypass DSP
22	P54	I/O	O	_CS_DSP1	L	I/F Q601 (main DSP)
23	P55	I/O	O	_CSB_DSP1	L	I/F Q601 (sub DSP)
24	Vss	I	-	GND	-	GND
25	P56	I/O	O	_SS_DSP2	L	I/F Q651
26	P57	I/O	O	C_EF_DIR	-	DIR Status Out Select
27	P60	I/O	O	_RSTRF	L	Reset to PM4007
28	P61	I/O	O	ADCAL	H	Cal. to ADC
29	P62	I/O	O	_RSTDSP2	L	Reset to Q651
30	P63	I/O	O	_ATT3	L	Attenuate to Bypass
31	P64	I/O	O	RSTDA1	L	Reset to DAC
32	P65	I/O	O	_RSTDA2	L	Reset to DAC

Act. : Active level , OPT : Option

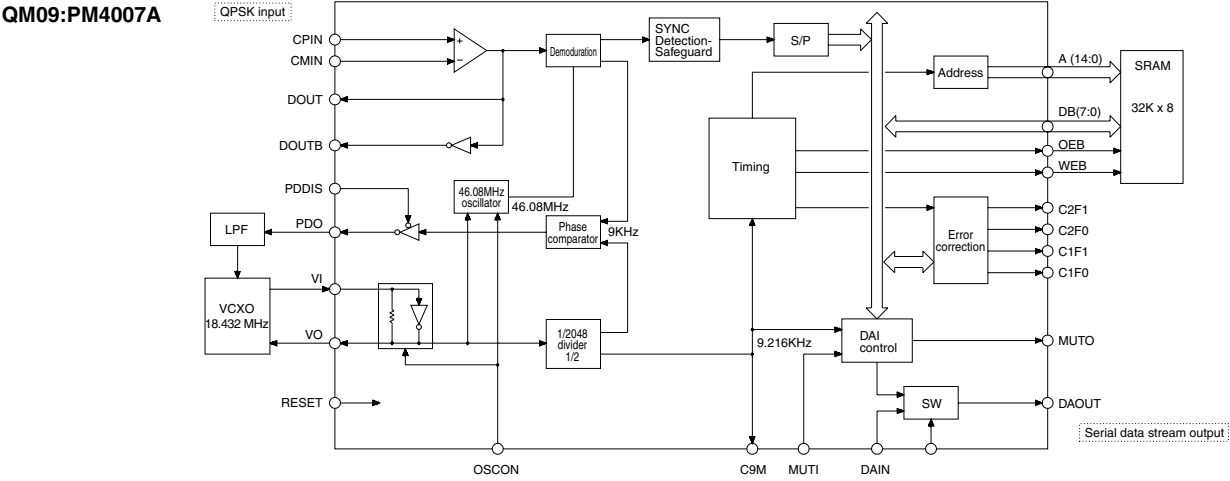
No	Port Name	I/O	USE	Sig. Name	Act.	Description
33	P66/WAIT	I/O	O	IC	L	Reset to Q601
34	P67/ASTB	I/O	O	RSTDIR	H	DIR Ch. Status Select
35	RESET	I	I	RSTC	L	I/F Master CPU
36	P00/INTP0	I	I	OVFB	-	Over load to DSP
37	P01/INTP1	I/O	I	_REQ	L	I/F Master CPU
38	P02/INTP2	I/O	I	ERF	H	SPDIF Error status
39	P03/INTP3	I/O	I	_RFNODET	L	RF input status
40	Vdd	I	-	+5V	-	+5v
41	X2	O	-	-	-	10MHz
42	X1	I	-	-	-	10MHz
43	IC	I	-	-	-	to GND
44	XT2	O	-	n.c.	-	Open
45	P04/XT1	I	-	n.c.	-	Vdd
46	Avss	I	-	GND	-	GND
47	P10/ANI0	I/O	ANI	KEY1	-	Optional 8 key input
48	P11/ANI1	I/O	ANI	KEY2	-	Optional 8 key input
49	P12/ANI2	I/O	ANI	KEY3	-	Optional 8 key input
50	P13/AMI3	I/O	ANI	KEY4	-	Optional 8 key input
51	P14/ANI4	I/O	I	SWITCH1	-	Link Host or Stand alone
52	P15/ANI5	I/O	I	SWITCH2	-	THX or Not
53	P16/ANI6	I/O	I	SWITCH3	-	ADC or CODEC
54	P17/ANI7	I/O	O	PDAD	-	ADC Power Down
55	AVdd	I	-	+5v	-	+5v
56	AVref	I	-	+5v	-	+5v
57	P20/SI1	I/O	I	SI1	-	I/F Master CPU
58	P21/SO1	I/O	O	SO1	-	I/F Master CPU
59	P22/SCK1	I/O	I	SCK1	-	I/F Master CPU
60	P23/STB	I/O	O	_ACK	L	I/F Master CPU
61	P24/BUSY	I/O	O	DEEMP	-	Pull Up
62	P25/SI0	I/O	I	SI0	-	I/F Q601&Q651
63	P26/SO0	I/O	O	SO0	-	I/F Q601&Q651
64	P27/SCK0	I/O	O	SCK0	-	I/F Q601&Q651

QR01:CS8414



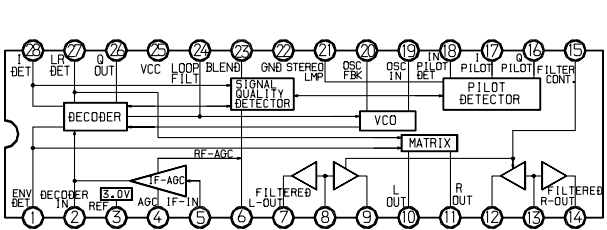
		C	1	28	VERF
CS d/FREQ REPORT 1	Cd/F1	2	27	Ce/F2	CS e/FREQ REPORT 2
CS c/FREQ REPORT 0	Cc/F0	3	26	SDATA	SERIAL OUTPUT DATA
CS b/ERROR CONDITION 2	Cb/E2	4	25	ERF	ERROR FLAG
CS a/ERROR CONDITION 1	Ca/E1	5	24	M1	SERIAL PORT MODE SELECT 1
CS 0/ERROR CONDITION 0	C0/E0	6	23	M0	SERIAL PORT MODE SELECT 0
DIGITAL POWER	VD+	7	22	VA+	ANALOG POWER
DIGITAL GROUND	DGND	8	21	AGND	ANALOG GROUND
RECEIVE POSITIVE	RXP	9	20	FILT	FILTER
RECEIVE NEGATIVE	RXN	10	19	MCK	MASTER CLOCK
FRAME SYNC	FSYNC	11	18	M2	SERIAL PORT MODE SELECT 2
SERIAL DATA CLOCK	SCK	12	17	M3	SERIAL PORT MODE SELECT 3
CHANNEL SELECT/FCLOCK	CS12/FCK	13	16	SEL	FREQ/CS SELECT
	U	14	15	CBL	

QM09:PM4007A

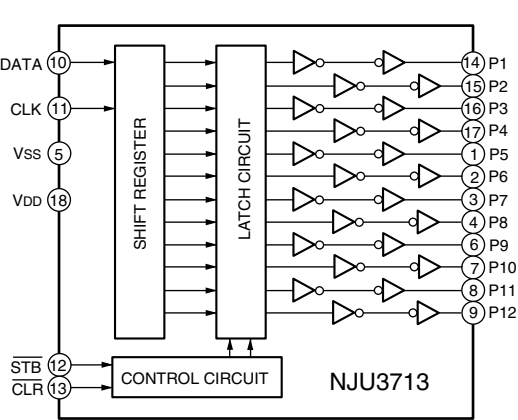


No.	Name	I/O	Function
1	GND	-	GND
2	VDD	-	+5VD
3	RESET	I	System Reset At "L" reset
4	OSCON	I	Oscillator control At "H" during normal operation At "L" during standby
5	DATA	I	TEST
6	MCK	I	TEST
7	MLTB	I	TEST
8	IDST	O	TEST
9	IDCK	O	TEST
10	IDO	O	TEST
11	TM0	I	TEST
12	ECCK	O	TEST
13	DEN	O	TEST
14	DRY	O	TEST
15	MSYC	O	TEST
16	TM1	I	TEST
17	A0	O	RAM A0
18	A1	O	RAM A1
19	A2	O	RAM A2
20	A3	O	RAM A3
21	A4	O	RAM A4
22	A5	O	RAM A5
23	TM2	I	TEST
24	TM3	I	TEST
25	XOUT	O	TEST
26	XIN	I	TEST
27	XEXT	I	TEST
28	GND	-	GND
29	VDD	-	+5VD
30	A6	O	RAM A6
31	A7	O	RAM A7
32	GND	-	GND
33	VDD	-	+5VD
34	A12	O	RAM A12
35	A14	O	RAM A14
36	WEB	O	RAM WEB
37	A13	O	RAM A13
38	A8	O	RAM A8
39	A9	O	RAM A9
40	GND	-	GND
41	A11	O	RAM A11
42	OEB	O	RAM OE
43	A10	O	RAM A10
44	DB7	B	RAM D7
45	DB6	B	RAM D6
46	DB5	B	RAM D5
47	DB4	B	RAM D4
48	DB3	B	RAM D3
49	DB2	B	RAM D2
50	DB1	B	RAM D1

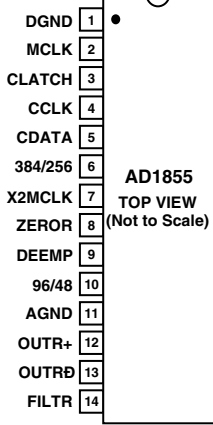
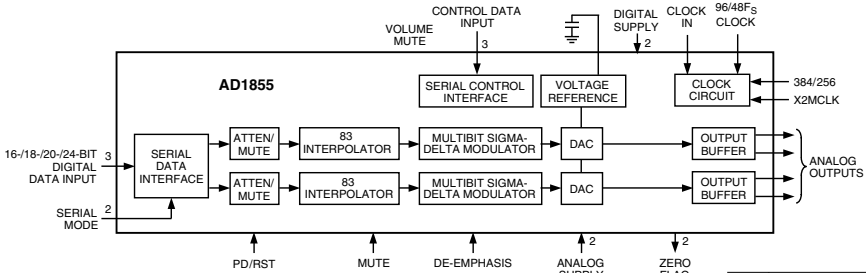
QA51:MC13022



QV01:NJU3713

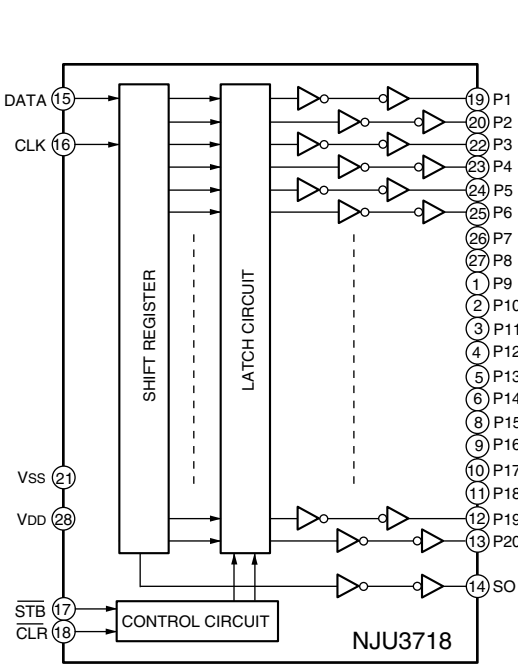


QD01/QD03/QD41/QD43:AD1855

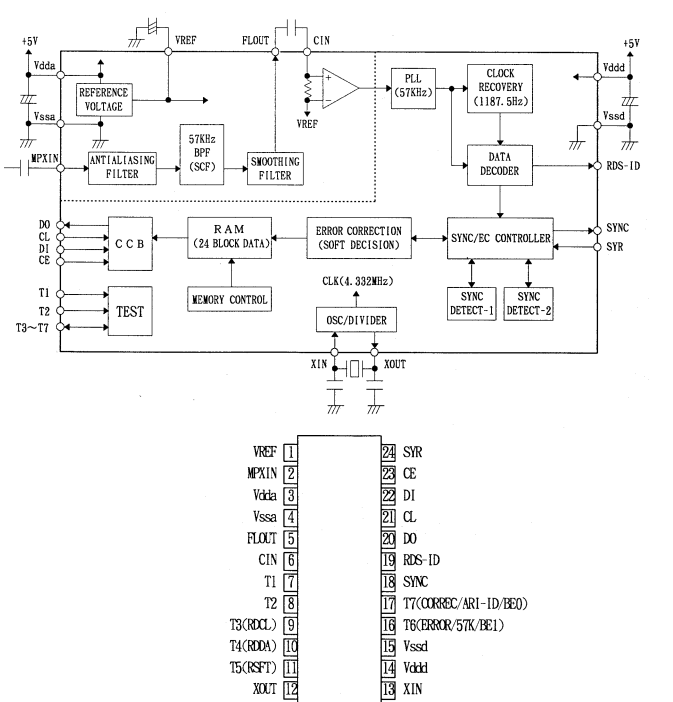


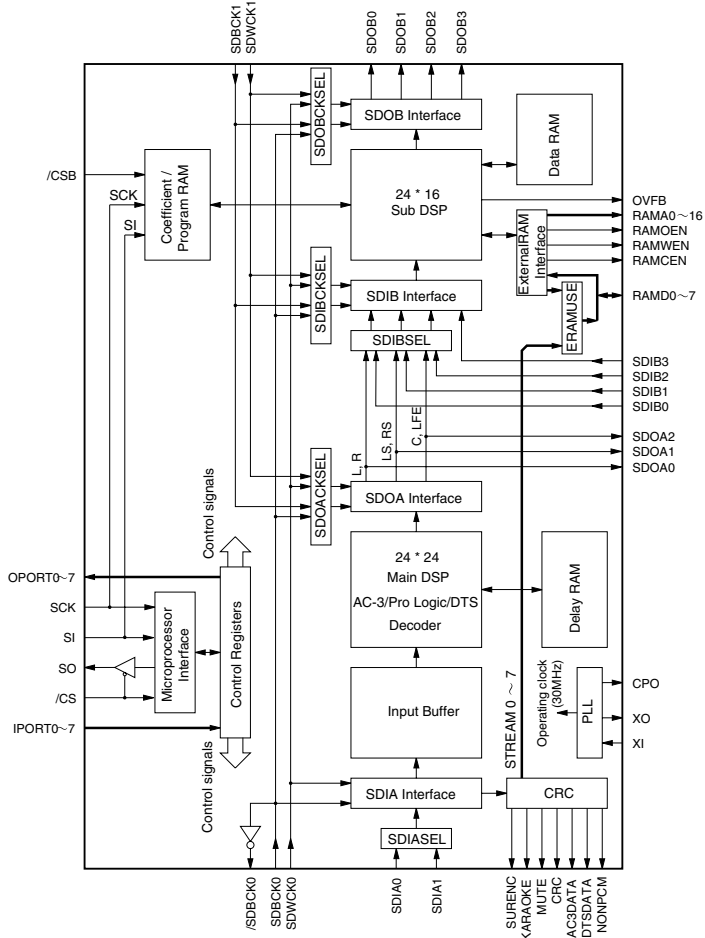
Pin	Input/Output	Pin Name	Description
1	I	DGND	Digital Ground.
2	I	MCLK	Master Clock Input. Connect to an external clock source at either 256, 384 or 512 Fs.
3	I	CLATCH	Latch input for control data. This input is rising-edge sensitive.
4	I	CCLK	Control clock input for control data. Control input data must be valid on the rising edge of CCLK. CCLK may be continuous or gated.
5	I	CDATA	Serial control input, MSB first, containing 16 bits of unsigned data per channel. Used for specifying channel specific attenuation and mute.
6	I	384/256	Selects the master clock mode as either 384 times the intended sample frequency (HI) or 256 times the intended sample frequency (LO). The state of this input should be hardwired to logic HI or logic LO, or may be changed while the AD1855 is in power-down/reset. It must not be changed while the AD1855 is operational.
7	I	X2MCLK	Selects internal clock doubler (LO) or internal clock = MCLK (HI).
8	O	ZEROR	Right Channel Zero Flag Output. This pin goes HI when Right Channel has no signal input for more than 1024 LR Clock Cycles.
9	I	DEEMP	De-Emphasis. Digital de-emphasis is enabled when this input signal is HI. This is used to impose a 50ms/15ms response characteristic on the output audio spectrum at an assumed 44.1 kHz sample rate.
10	I	96/48	Selects 48 kHz (LO) or 96 kHz Sample Frequency Control.
11, 15	I	AGND	Analog Ground.
12	O	OUTR+	Right Channel Positive line level analog output.
13	O	OUTR0	Right Channel Negative line level analog output.
14	O	FILTR	Voltage Reference Filter Capacitor Connection. Bypass and decouple the voltage reference with parallel 10 m F and 0.1 m F capacitors to the AGND.
16	O	OUTL0	Left Channel Negative line level analog output.
17	O	OUTL+	Left Channel Positive line level analog output.
18	I	AVDD	Analog Power Supply. Connect to analog +5 V supply.
19	O	FILTB	Filter Capacitor connection, connect 10 m F capacitor to AGND.
20	I	IDPM1	Input serial data port mode control one. With IDPM0, defines one of four serial modes.
21	I	IDPM0	Input serial data port mode control zero. With IDPM1, defines one of four serial modes.
22	O	ZEROL	Left Channel Zero Flag output. This pin goes HI when Left Channel has no signal input for more than 1024 LR Clock Cycles.
23	I	MUTE	Mute. Assert HI to mute both stereo analog outputs. Deassert LO for normal operation.
24	I	PD/RST	Power-Down/Reset The AD1855 is placed in a low power consumption mode when this pin is held LO. The AD1855 is reset on the rising edge of this signal. The serial control port registers are reset to the default values. Connect HI for normal operation.
25	I	L/RCLK	Left/ Right clock input for input data. Must run continuously.
26	I	BCLK	Bit clock input for input data. Need not run continuously; may be gated or used in a burst fashion.
27	I	SDATA	Serial input, MSB first, containing two channels of 16, 18, 20, and 24 bits of two complement data per channel.
28	I	DVDD	Digital Power Supply Connect to digital +5 V supply.

QL07/QU02:NJU3718

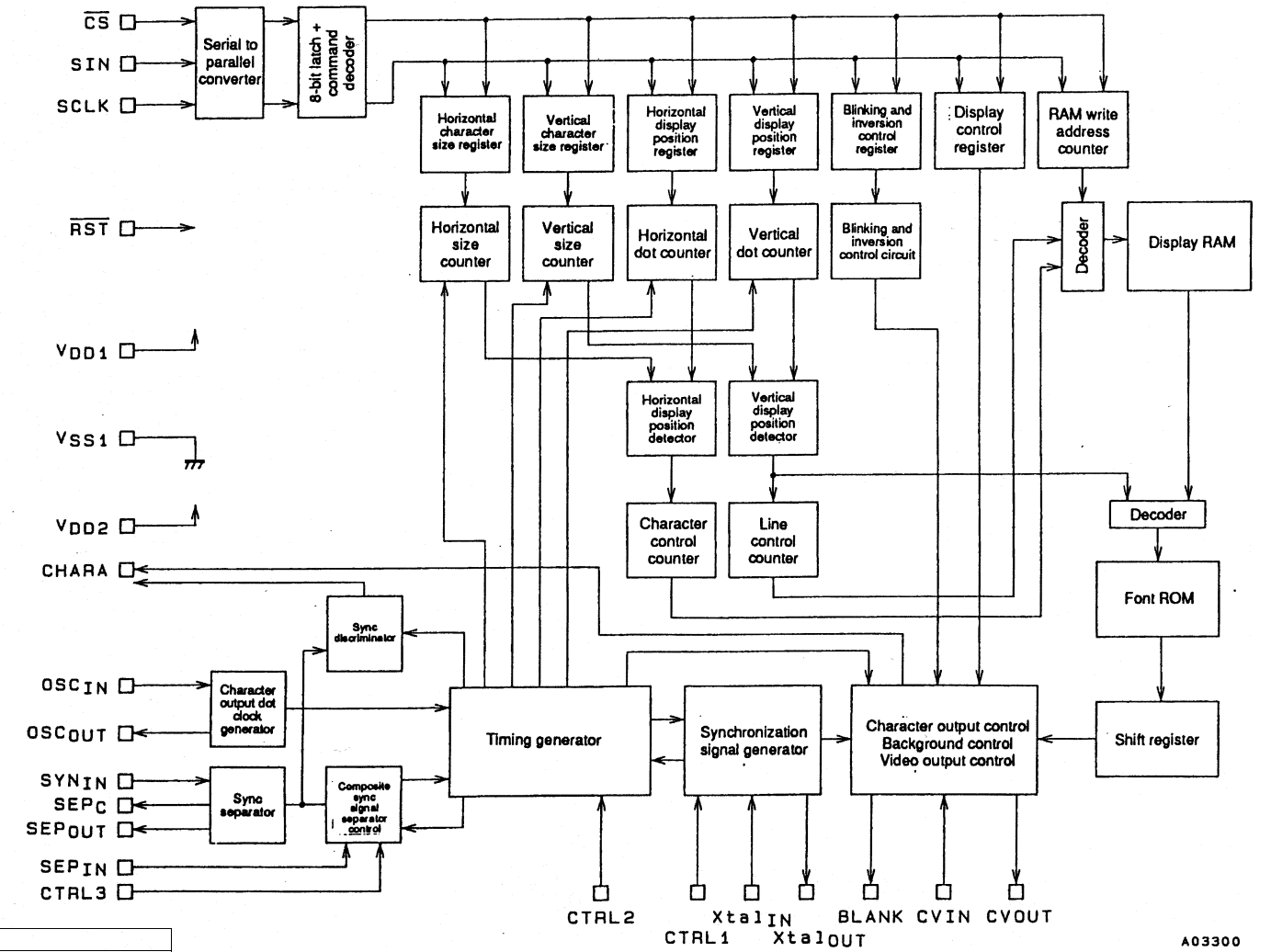


Q351:LC72720





No.	NAME	I/O	FUNCTION
1	VDD1	-	+5V power supply (for I/Os)
2	RAMCEN	O	External SRAM Interface /CE
3	RAMA16	O	External SRAM Interface address 16
4	RAMA15	O	External SRAM Interface address 15
5	SDIB0	I+	PCM input 0 to Sub DSP
6	SDIB1	I+	PCM input 1 to Sub DSP
7	SDIB2	I+	PCM input 2 to Sub DSP
8	XI	I	Crystal oscillator connection or input external clock (12.288 MHz)
9	XO	O	Crystal oscillator connection
10	VSS	-	Ground
11	AVDD	-	+3.3V power supply (for PLL circuit)
12	SDIB3	I+	PCM input 3 to Sub DSP
13	TEST	O	Test terminal (to be open in normal use)
14	TEST	O	Test terminal (to be open in normal use)
15	OVFB	O	Detection of overflow at Sub DSP
16	DTSDATA	O	DTS data detection (Refer to "Status Register".)
17	AC3DATA	O	AC-3 data detection (Refer to "Status Register".)
18	SDOB3	O	PCM output from Sub DSP
19	CPO	A	Output terminal for PLL, to be connected to ground through the external analog filter circuit. (Refer to "External Circuit for PLL".)
20	AVSS	-	Ground (for PLL circuit)
21	VDD2	-	+3.3V power supply (for core logic)
22	SDOA2	O	PCM output from Main DSP (C, LFE)
23	SDOA1	O	PCM output from Main DSP (LS, RS)
24	SDOA0	O	PCM output from Main DSP (L, R)
25	RAMA14	O	External SRAM Interface address 14
26	RAMA13	O	External SRAM Interface address 13
27	RAMA12	O	External SRAM Interface address 12
28	RAMA11	O	External SRAM Interface address 11
29	RAMA10	O	External SRAM Interface address 10
30	VSS	-	Ground
31	VDD1	-	+5V power supply (for I/Os)
32	OPORT0	O	Output port for general purpose. (Refer to "OPORT Register")
33	OPORT1	O	Output port for general purpose. (Refer to "OPORT Register")
34	OPORT2	O	Output port for general purpose. (Refer to "OPORT Register")
35	OPORT3	O	Output port for general purpose. (Refer to "OPORT Register")
36	OPORT4	O	Output port for general purpose. (Refer to "OPORT Register")
37	OPORT5	O	Output port for general purpose. (Refer to "OPORT Register")
38	OPORT6	O	Output port for general purpose. (Refer to "OPORT Register")
39	OPORT7	O	Output port for general purpose. (Refer to "OPORT Register")
40	VSS	-	Ground
41	VDD2	-	+3.3V power supply (for core logic)
42	RAMA9	O	External SRAM interface address 9
43	RAMA8	O	External SRAM interface address 8
44	RAMA7	O	External SRAM interface address 7
45	SDOB2	O	PCM output from Sub DSP
46	SDOB1	O	PCM output from Sub DSP
47	SDOB0	O	PCM output from Sub DSP
48	SDBCK1	I+	Bit clock input for SDOA, SDIB, SDOB. (Refer to "SDOA, SDIB, SDOB Register")
49	SDWCK1	I+	Word clock input for SDOA, SDIB, SDOB. (Refer to "SDOA, SDIB, SDOB Register")
50	VSS	-	Ground



No.	NAME	I/O	FUNCTION
51	VDD2	-	+3.3V power supply (for core logic)
52	NONPCM	O	Detection of non PCM data. (Refer to "Status Register")
53	CRC	O	Detection of AC-3 CRC error. (Refer to "Status Register")
54	MUTE	O	Detection of auto-mute. (Refer to "Status Register")
55	KARAOKE	O	Detection of AC-3 karaoke data. (Refer to "Status Register")
56	SURENC	O	Detection of AC-3 2/0 mode Dolby surround encoded input (Refer to "Status Register")
57	/SDBCK0	O	Inverted SDBCK0 clock output (refer to "Block diagram")
58	RAMA6	O	External SRAM Interface address 6
59	RAMA5	O	External SRAM Interface address 5
60	VSS	-	Ground
61	RAMA4	O	External SRAM Interface address 4
62	/IC	Is	Initial clear
63	TEST	O	Test terminal (to be open in normal use)
64	RAMA3	O	External SRAM Interface address 3
65	/CSB	Is+	Sub DSP Chip select
66	/CS	Is	Microprocessor interface Chip select
67	SO	Ot	Microprocessor interface Serial data output
68	SI	Is	Microprocessor interface/Sub DSP Serial data input
69	SCK	Is	Microprocessor interface/Sub DSP clock input
70	RAMA2	O	External SRAM Interface address 2
71	VDD1	-	+5V power supply (for I/Os)
72	RAMD0	I+/O	External SRAM Interface data (STREAM 0 output when External SRAM is not in use)
73	RAMD1	I+/O	External SRAM Interface data (STREAM 1 output when External SRAM is not in use)
74	RAMD2	I+/O	External SRAM Interface data (STREAM 2 output when External SRAM is not in use)
75	RAMD3	I+/O	External SRAM Interface data (STREAM 3 output when External SRAM is not in use)
76	RAMD4	I+/O	External SRAM Interface data (STREAM 4 output when External SRAM is not in use)
77	RAMD5	I+/O	External SRAM Interface data (STREAM 5 output when External SRAM is not in use)
78	RAMD6	I+/O	External SRAM Interface data (STREAM 6 output when External SRAM is not in use)
79	RAMD7	I+/O	External SRAM Interface data (STREAM 7 output when External SRAM is not in use)
80	VSS	-	Ground
81	VDD2	-	+3.3V power supply (for core logic)
82	SDWCK0	I	Word clock input for SDIA, SDOA, SDIB, SDOB (Refer to "SDIA, SDOA, SDIB, SDOB Register")
83	SDBCK0	I	Bit clock input for SDIA SDOA SDIB SDOB (Refer to "SDIA, SDOA, SDIB, SDOB Register")
84	SDIA0	I	AC-3/DTS bitstream (or PCM) data input for Main DSP (Refer to "SDIA Register")
85	SDIA1	I	AC-3/DTS bitstream (or PCM) data input for Main DSP (Refer to "SDIA Register")
86	RAMA1	O	External SRAM Interface address 1
87	RAMA0	O	External SRAM Interface address 0
88	RAMWEN	O	External SRAM Interface /WE
89	RAMOEN	O	External SRAM Interface /OE
90	VSS	-	Ground
91	VDD2	-	+3.3V power supply (for core logic)
92	IPORT7	I+	Input port for general purpose (Refer to "IPORT Register")
93	IPORT6	I+	Input port for general purpose (Refer to "IPORT Register")
94	IPORT5	I+	Input port for general purpose (Refer to "IPORT Register")
95	IPORT4	I+	Input port for general purpose (Refer to "IPORT Register")
96	IPORT3	I+	Input port for general purpose (Refer to "IPORT Register")
97	IPORT2	I+	Input port for general purpose (Refer to "IPORT Register")
98	IPORT1	I+	Input port for general purpose (Refer to "IPORT Register")
99	IPORT0	I+	Input port for general purpose (Refer to "IPORT Register")
100	VSS	-	Ground

Note) Is : Schmidt trigger input terminal
 I+ : Input terminal with a pull-up resistor
 O : Digital output terminal
 Ot : Tri-state digital output terminal
 A : Analog terminal

6. SERVICE PROGRAM

REMARK

If these service programs are set, All user preset memories will be cleared.

1. FACTORY mode (Tracking point memory)

This **FACTORY mode** can be use for measurement of the tuner circuit.
When the product is POWER ON, press both [**MEMO**] and [**MODE ▼**] buttons simultaneously over 3 seconds.
FLD shows "**FACTORY**" for 3 seconds. Press [**PRESET**] button, FLD shows "**PRESET SEL**".
The tuning frequencies are memorized as follows.

Band	VERSION	P1	P2	P3	P4
FM AUTO [MHz]	K, N, S, U	90.0	98.0	106.0	87.5
	F	78.0	83.0	88.0	76.0

Band	SCAN STEP	P5	P6	P7	P8	P9	P10	P11	P12
AM [kHz]	10 kHz(U)	600	1000	1400	520				
	9 kHz(F, K, S)	603	999	1404	531				
	MW/LW(N)	603	999	1404	171	207	270	152	531

2. FLD segment check mode

This mode is available to check all luminous segments by the following steps.
1. When the product is FACTORY mode (Refer to above mentioned "**1. FACTORY mode**"), press [**DISPLAY OFF**] button on remote control unit. FLD shows "**SERVICE**" for 2 seconds.
2. All segments and all LED light up for 5 seconds.
3. Each segment lights up step by step.
4. Press [**DISPLAY OFF**] button again, then this mode will be stopped and the product will be FACTORY mode.

3. Version of microprocessor (CPU)

This program is available to confirm the version of each CPU by the following steps.
QY01 (main) : When the product is POWER ON, press both [**CL**] and [**TREBLE ▼**] buttons simultaneously over 3 seconds.
FLD shows the version of program code for QY01.
Q691 (DSP) : When the product is POWER ON, press both [**CL**] and [**BASS ▼**] buttons simultaneously over 3 seconds.
FLD shows the version of program code for Q691.

4. Input and output test mode

This mode is available for the functions as shown in Fig 1 by the following steps.
1. When the product is FACTORY mode (Refer to above mentioned "**1. FACTORY mode**"), press both [**MEMO**] and [**TREBLE ▼**] buttons simultaneously.
2. FLD shows "**AUTO D1**". By pressing both [**MEMO**] and [**TREBLE ▼**] buttons simultaneously each time, the mode is changed in the following order.

Fig 1 Input and output test mode

ORDER	INDICATION for FLD	MODE FUNCTION
1	AUTO D1	Input selection mode (without using system setup menu)
2	ALL CH D1	5 or 6 channels output mode (This mode is available for 2 channels input)
3	INPULSE --	This mode is development use only
4	CD/DIG1	This mode is the same status as FACTORY mode

4.1. Input selection mode (without setting to system setup menu)

This mode is available to select the input without setting to system setup menu by the following steps.
1. When FLD shows "AUTO D1" (Refer to "**4. Input and output test mode**"), the input can be shifted by pressing [**MODE**] button for the remote commander only each time as shown in Fig 2. ([**MODE**] button is in page4 of **AMP** function for RC-18SR)

Fig 2. Input selection order by pressing [**MODE**] button each time

ORDER	INDICATION for FLD	INPUT STATUS
1	AUTO D1	DIG. 1 IN
2	AUTO D2	DIG. 2 IN
3	AUTO D3	DIG. 3 IN
4	AUTO D4	DIG. 4 IN
5	AUTO RF	RF IN
6	AUTO CD	CD IN (Analog)

Note: Surround mode is fixed "**AUTO**" mode automatically.

4.2. 5.1 channels output mode

This mode is available to output the same signal from 5 channels, even though 2 channels audio signal comes in.
As the result, all channels output can be confirmed by using analog stereo signal or PCM audio signal.
AC-3 or DTS source is not necessary to output from any channel in this mode.

1. When FLD shows "ALL CH D1" (Refer to "**4. Input and output test mode**"), the input can be shifted by pressing [**MODE**] button for the remote commander only each time as shown in Fig 3. ([**MODE**] button is in page4 of **AMP** function for RC-18SR)
2. Supply to 2 channels PCM signal for digital input or 2 channels analog signal for analog input. But, Left channel and Right channel of input signal should be equal.
3. Then each output from the product is the same as the input signal. (Subwoofer channel is respond to lower than 80Hz signal)

Fig 3. Input selection order by pressing [**MODE**] button each time

ORDER	INDICATION for FLD	INPUT STATUS
1	ALL CH D1	DIG. 1 IN
2	ALL CH D2	DIG. 2 IN
3	ALL CH D3	DIG. 3 IN
4	ALL CH D4	DIG. 4 IN
5	ALL CH RF	RF IN
6	ALL CH CD	CD IN (Analog)

5. Transistor MUTE mode

In mute situation on the product, output signal is muted by Volume control IC and muting transistor.
But, this mode is available to work the muting transistor only by the following steps.
1. When the product is FACTORY mode (Refer to "**1. FACTORY mode**"), press [**MUTE**] button for remote commander only.
2. FLD shows "**TrMUTE ON**", then muting transistor circuit is active only.

6. How to reset the product

When the product is POWER ON, press both [**CL**] and [**MODE ▼**] buttons simultaneously.
FLD shows "**DEFAULT**" for 3 seconds, then all memories are cleared.

7. ALIGNMENT PROCEDURES

1. AM IF Adjustment

Step	Input Signal Source Connection	Signal Frequency	Source Signal Output Level and Modulation	Reception Frequency	Adjustment Point	Adjustment Value
1	Signal generator output to transmission *loop antenna. (*:Standard required loop)	999 kHz (F, K, N, S) 1000 kHz (U)	Level 300 μV/m (50dB/m) Mod. 400 Hz 30%	Tuning point	LA06	Output level (L or R) Maximum at TAPE-OUT

REMARK: For receiving antenna, the adapted one is available.
This adjustment is not necessary normally, because the coil LA06 is preset by the original supplier.
It is necessary when the incorrect usable sense and frequency response.

2. AM Tracking Adjustment (MW) [For N only]

Step	**Input Signal Source Connection	Signal Frequency	Source Signal Output Level and Modulation	Reception Frequency	Adjustment Point	Adjustment Value
1	Signal generator output to transmission *loop antenna. (*:Standard required loop)	603 kHz (F, K, N, S) 600 kHz (U)	Level 300 - 400 μV/m Mod. 400 Hz 30%	603 kHz (F, K, N, S) 600 kHz (U)	LA01	Output level (L or R) Maximum at TAPE-OUT
2		1404 kHz (F, K, N, S) 1400 kHz (U)	Level 300 - 400 μV/m Mod. 400 Hz 30%	1404 kHz (F, K, N, S) 1400 kHz (U)	CA01	Output level (L or R) Maximum at TAPE-OUT
3	Repeat step 1 and 2 until sensitivity be maximized.					

3. AM Tracking Adjustment (LW) (ONLY N VERSION)

Step	**Input Signal Source Connection	Signal Frequency	Source Signal Output Level and Modulation	Reception Frequency	Adjustment Point	Adjustment Value
1	Signal generator output to transmission *loop antenna. (*:Standard required loop)	171 kHz	Level 300 - 400 μV/m Mod. 400 Hz 30%	171 kHz	LA03	Output level (L or R) Maximum at TAPE-OUT
2		270 kHz	Level 300 - 400 μV/m Mod. 400 Hz 30%	270 kHz	CA08	Output level (L or R) Maximum at TAPE-OUT
3	Repeat step 1 and 2 until sensitivity be maximized.					

4. AM auto stop Adjustment

Step	Input Signal Source Connection	Signal Frequency	Source Signal Output Level and Modulation	Reception Frequency	Adjustment Point	Adjustment Value
1	Signal generator output to transmission *loop antenna. (*:Standard required loop)	999 kHz (F, K, N, S) 1000 kHz (U)	500 μV/m (54 dB/m)	999 kHz (F, K, N, S) 1000 kHz (U)	RA11	"TUNED" indicate on FLD
2			1000 μV/m (60 dB/m)	AUTO SCAN	Only Confirm	"TUNED" indicate on FLD

5. FM MONO. Distortion Adjustment

Step	Input Signal Source Connection	Signal Frequency	Source Signal Output Level and Modulation	Reception Frequency	Adjustment Point	Adjustment Value
1	Signal generator output to FM antenna terminal. (75 Ω)	98 MHz (K, N, S, U) 83 MHz (F)	500 μV (54 dB) MONO 1 kHz / Dev.40kHz 53.3% (K, N, S) MONO 1 kHz / Dev. 75 kHz 100% (U, F)	98 MHz (P2)	L201	Distortion level Minimum at TAPE-OUT

6. FM Muting Level Adjustment

Turn the variable resistor **R212** to no indication ("TUNED") point. And return that valuable resistor in opposite to the "TUNED" indicate point.

Step	Input Signal Source Connection	Signal Frequency	Source Signal Output Level and Modulation	Reception Frequency	Adjustment Point	Adjustment Value
1	Signal generator output to FM antenna terminal. (75 Ω)	98 MHz (K, N, S, U) 83 MHz (F)	10 μV (20 dB) MONO 1 kHz / Dev.40 kHz 53.3% (K, N, S) MONO 1 kHz / Dev. 75 kHz 100% (U,F)	98 MHz (P2) 83 MHz (P2)	R212	"TUNED" indicate on FLD
2			Over mentioned level +3 dB	AUTO SCAN	Only Confirm	"TUNED" indicate on FLD

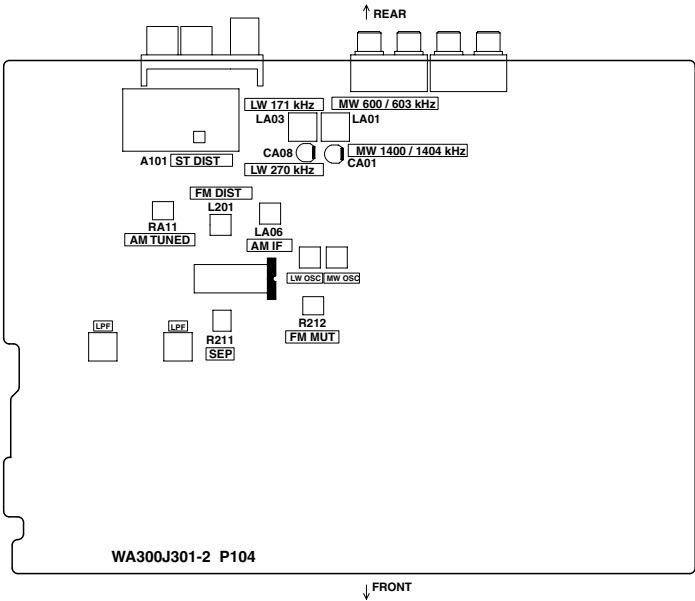
7. FM STEREO Distortion Adjustment

Adjust the **L channel** with the RF signal modulated only **L channel** first and confirm the **R channel** with the RF signal modulated only **R channel**.

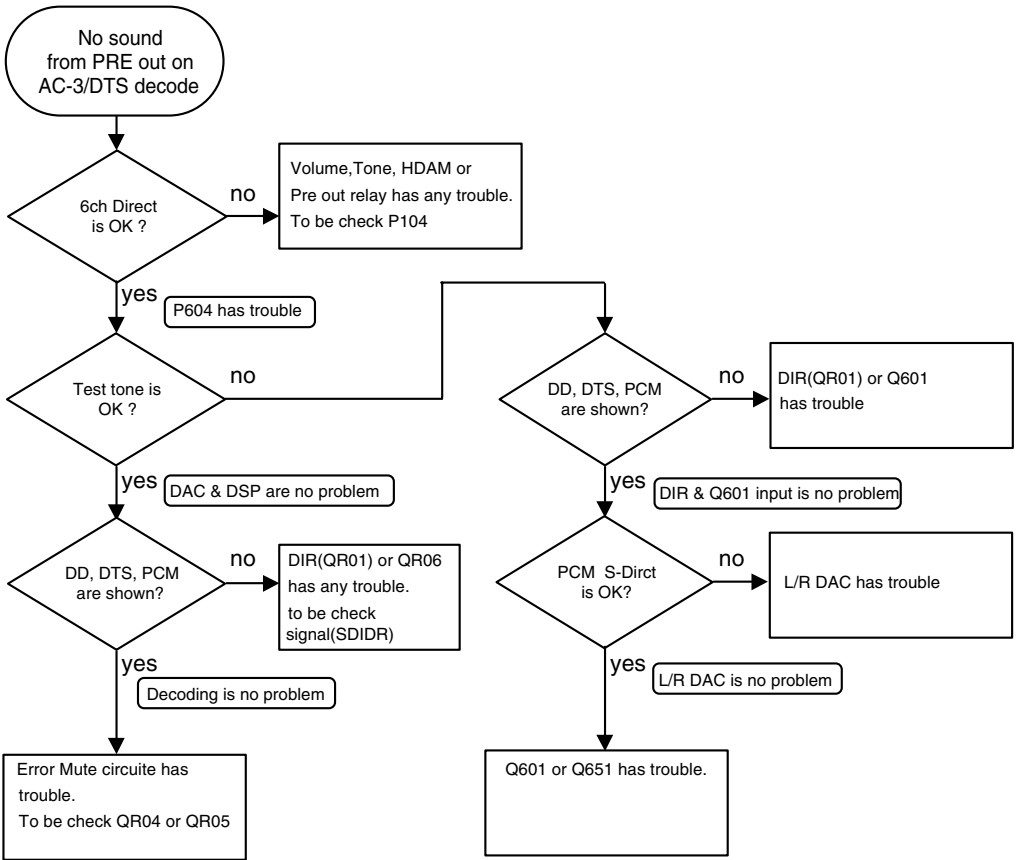
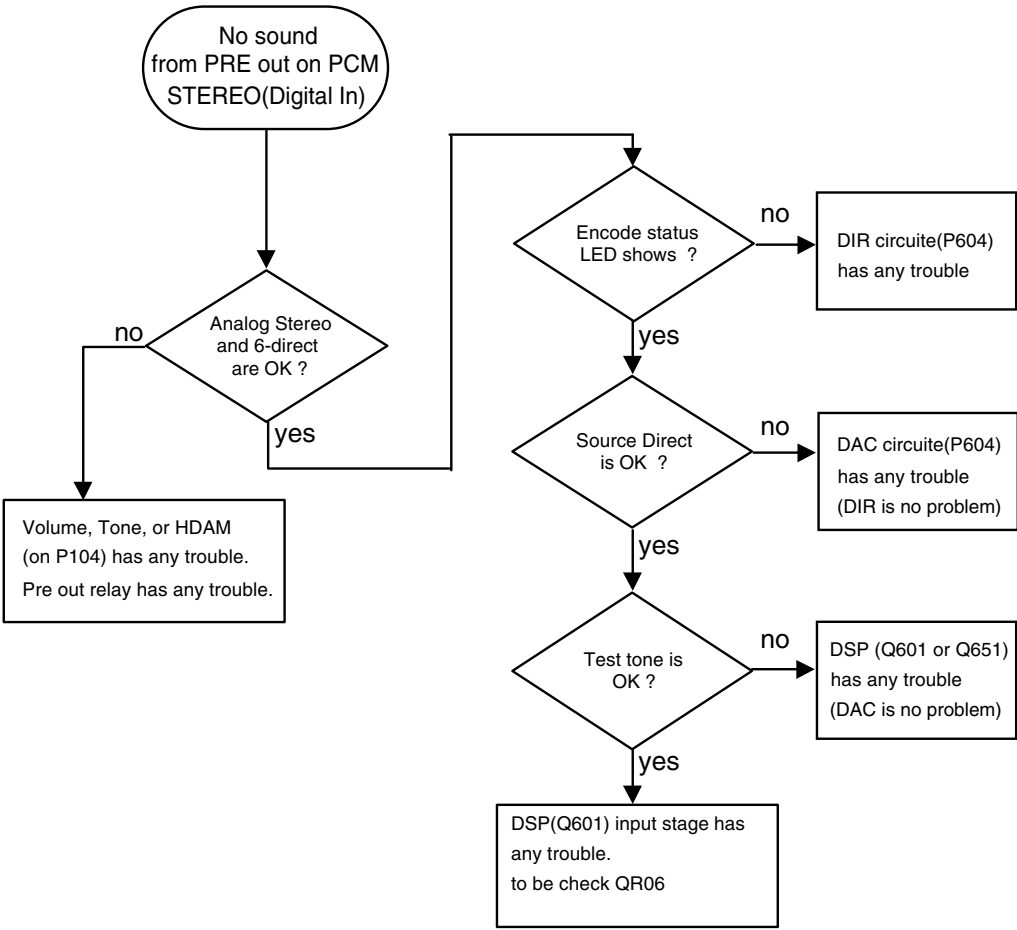
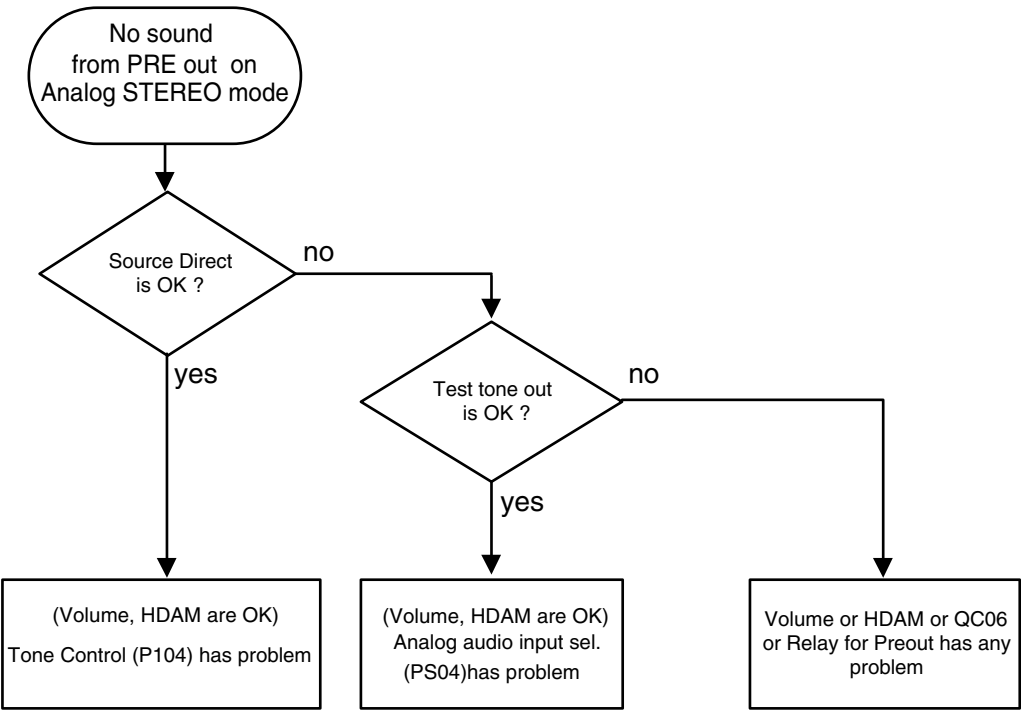
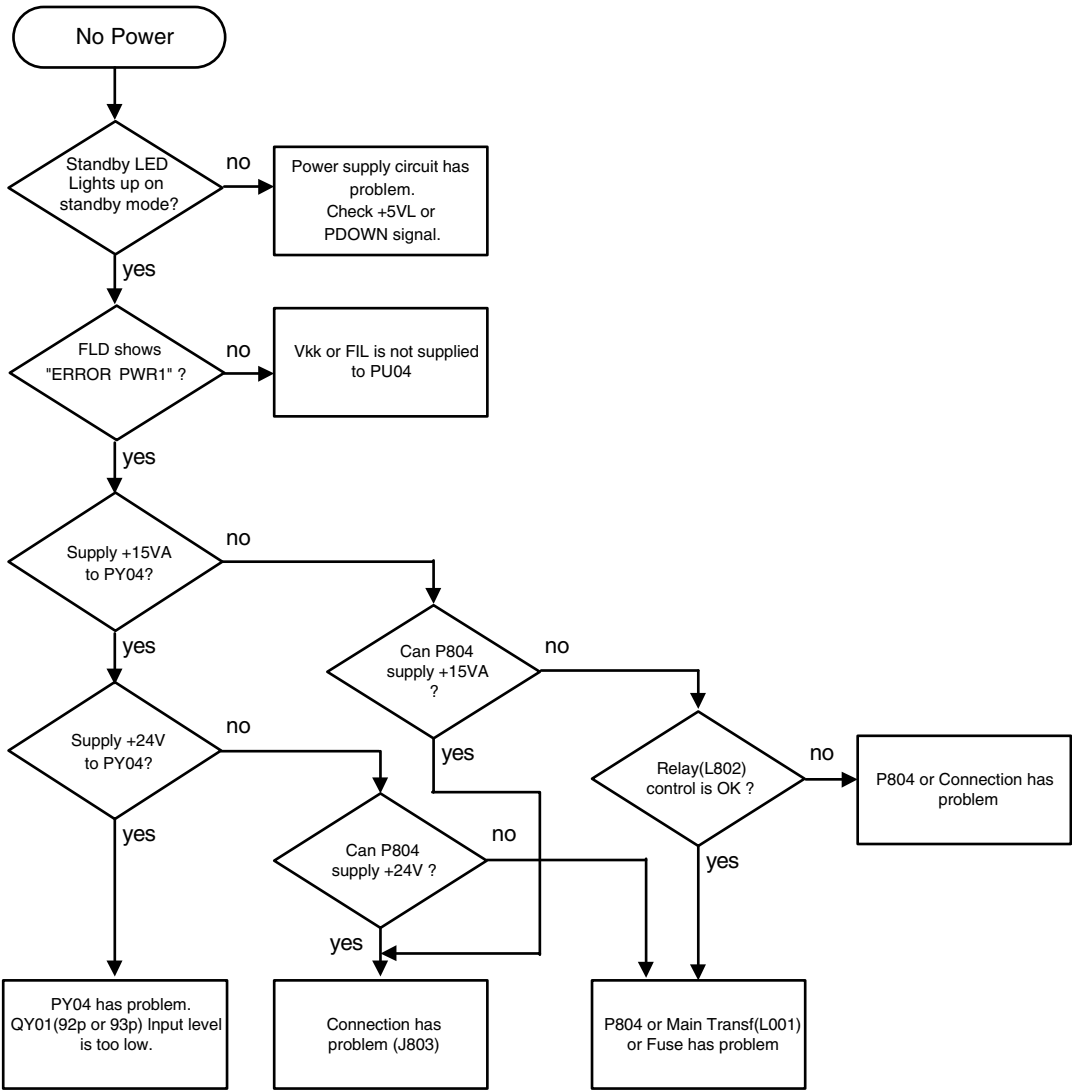
Step	Input Signal Source Connection	Signal Frequency	Source Signal Output Level and Modulation	Reception Frequency	Adjustment Point	Adjustment Value
1	Signal generator output to FM antenna terminal. (75 Ω)	98 MHz (K, N, S, U) 83 MHz (F)	500 μV (54 dB) L or R 1 kHz / Dev. 40 kHz 53.3% PILOT 19 kHz / Dev. 6 kHz 8% (K, N, S)	98 MHz (P2) 83 MHz (P2)	IF COIL in FRONT END	Distortion level Minimum at TAPE-OUT
2			L or R 1 kHz / Dev. 67.5 kHz 90% PILOT 19 kHz / Dev. 6.75 kHz 9% (U, F)		Only Confirm	Distortion level Simimilar as L ch. at TAPE-OUT R ch.

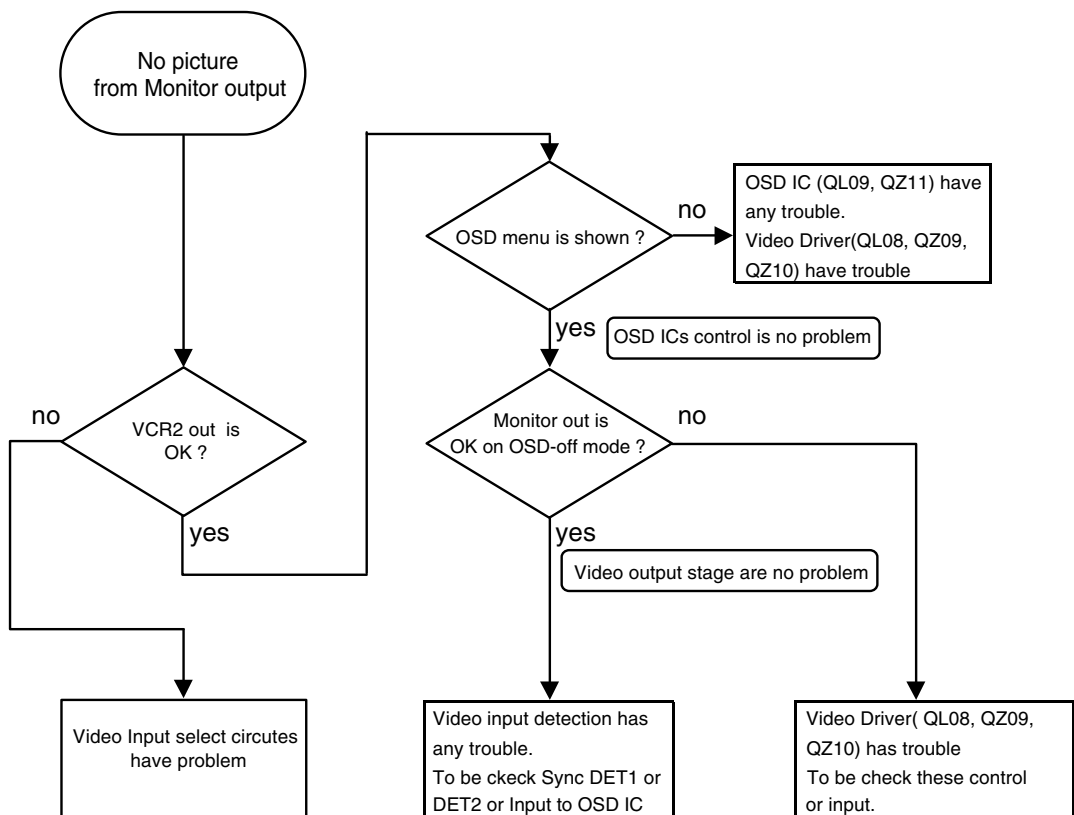
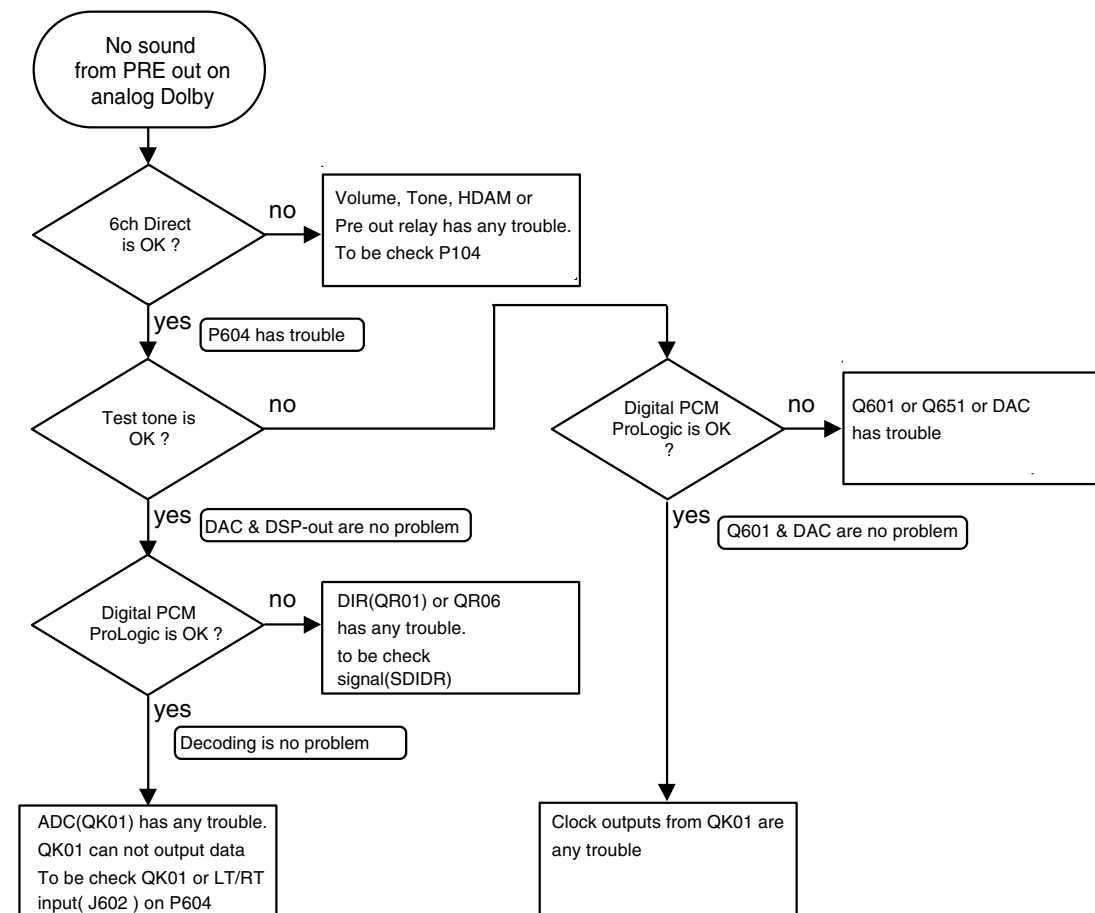
8. FM STEREO Separation Adjustment

Step	Input Signal Source Connection	Signal Frequency	Source Signal Output Level and Modulation	Reception Frequency	Adjustment Point	Adjustment Value
1	Signal generator output to FM antenna terminal. (75 Ω)	98 MHz (K, N, S, U) 83 MHz (F)	same specification as FM STEREO distortion adjustment. Input only L channel.	98 MHz (P2) 83 MHz (P2)	R211	Output level Minimum at TAPE-OUT channel R
2		98 MHz (K, N, S, U) 83 MHz (F)	same specification as FM STEREO distortion adjustment. Input only R channel.	98 MHz (P2) 83 MHz (P2)	R211	Output level Similar as Rch at TAPE-OUT channel L



8.TROUBLE SHOOTING





9. TECHNICAL DESCRIPTION

This product has two DSP ICs, one is for Dolby Digital (AC-3) decoding or DTS (Digital Theater System) decoding, another is for THX processing.

Multi channel sound is reproduced by connecting with DVD player or LD player.

Also Dolby Pro Logic decode is available to analog audio and PCM digital audio.

Additionally, 96kHz PCM stereo audio playback is possible.

Decoding circuit is consist of 13 ICs (DIR, two DSP, ADC, five DAC, AC-3 RF demodulator, two data separator and CPU).

DOLBY DIGITAL (AC-3)

Dolby Digital delivers six totally separate (discrete) channels of sound. Like Dolby Surround Pro Logic, it includes Left, Center and Right channels across the front of the room. Dolby Surround Pro Logic provides a single limited-bandwidth (100 Hz to 7,000 Hz) surround channel which is typically played back in the home through two channels of amplification and two speakers. In comparison, Dolby Digital provides separate (discrete) left surround and right surround channels, for more precise localization of sounds and a more convincing, realistic ambience. And, with Dolby Digital, all five main channels are full range (3 Hz to 20,000 Hz). A subwoofer could be added to each channel, if desired.

The sixth channel, the Low Frequency Effects Channel, will, at times, contain additional bass information to maximize the impact of scenes such as explosions, crashes, etc. Because this channel has only a limited frequency response (3 Hz to 120 Hz), it is sometimes referred to as the “.1” channel. When added to the 5 full range channels, the Dolby Digital system is sometimes referred to as having “5.1” channels.

DTS

An amazing new technology for surround-sound entertainment, DTS Digital Surround is an encode/decode system that delivers six channels (5.1) of master-quality, 20-bit audio. In the encoding process, the DTS algorithm encrypts six channels of 20-bit digital audio information in the space previously allotted for only two channels of 16-bit linear PCM. Then during playback, the DTS decoder reconstructs the original six channels of 20-bit digital audio. Each of these six channels is audibly superior to the 16-bit linear PCM audio found on conventional compact discs.

THX ULTRA

Home THX Controller Technologies : Dubbing stages (where soundtracks are created) and movie theatres do not change their acoustics, equipment, or system equalization when mixing or playing back 5.1 channel sound tracks. They merely divide the surround array of speakers into two symmetrical arrays (hence the term “split surround”). All of the remaining system equalization and setup remains the same. The Home THX Technologies of Re-Equalization, Timbre Matching, and Decorrelation, as well as the Home THX Crossover are still necessary for 5.1 channel formats. Because of the nature of the split surround soundtrack, Home THX Timbre Matching and Decorrelation technologies have been altered to provide correct surround sound balance and spaciousness. Here is a representation of how Home THX Controller Technologies work with the various surround sound formats.

DIR (Digital audio Interface Receiver : QR01 / CS8414)

This circuit extract synchronized clock signals and data from SPDIF signal input.

QR01(CS8414) generates these signals, this chip supports 96kHz sample rate.

1st DSP (Digital Signal Processor for Dolby Digital, Pro Logic, DTS : Q601 / YSS912)

Q601(YSS912) decodes 6 channels audio from encoded data signal input.

Some effects are processed in addition to multi channel decoding on HALL, MATRIX, and MOVIE mode.

2nd DSP (Digital Signal Processor for THX processing : Q651 / ZR38600)

Q651(ZR38600) has the THX 5.1 processing functions. These functions include **Re-equalization, Surround Timbre-Matching, Adaptive Decorrelation, Bass Management, Bass Peak Level Manager,** and **Loudspeaker Position Time Synchronization.**

Re-equalization takes the edginess or “brightness” out of your home cinema sound, compensating for the fact that sound mixed for theatres will sound too bright when played back through flat response speakers in your home.

Timbre Matching matches the tone of your front speakers to your surrounds to compensate for the fact that only two surround speakers are used in a typical Home Theatre system instead of a full array as in a movie theatre.

Adaptive Decorrelation gives a stereo “feel” when your surrounds are playing mono and automatically switches off when they are playing stereo.

Bass Management Electronic Crossover allows you to use more compact, easier-to-place speakers, while sending bass to a subwoofer system, improving frequency response, lowering distortion and increasing dynamic range.

Bass Peak Level Manager protects your subwoofer from overloading due to the great amount of bass a 5.1 soundtrack delivers.

Loudspeaker Position Time Synchronization lets you easily set up your system for an optimum listening position, which is difficult to achieve within the space constraints of most homes.

ADC (Analog to Digital Converter : QK01 / CS5394)

CS5394 is a complete analog-to-digital converter for stereo digital audio systems. it performs sampling, analog-to-digital conversion and anti-alias filtering, generating 24 bit values for both left and right inputs in serial form.

DAC (Digital to Analog Converter : QD01, QD02, QD03 : QD41, QD42 / AD1855)

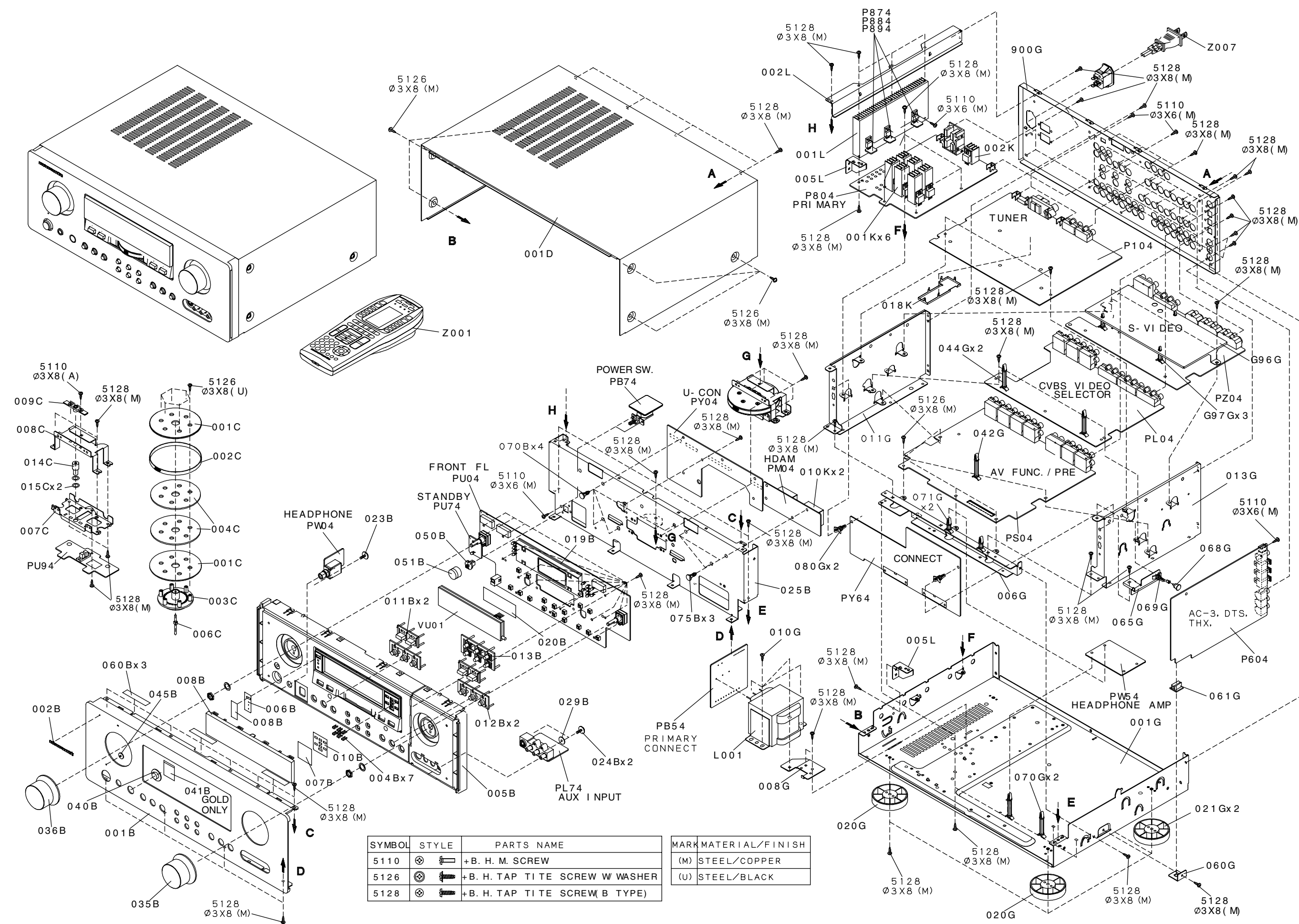
The AD1855 is a high performance, single-chip stereo, audio DAC. There are five AD1855 chips on the board. Four chips are used for L, R, C, and Sub woofer channel individually. Another chip is used for Surround Left & Right.

CPU (Q691 / μPD78018)

This chip controls some ICs in P604 and communicates with QU01.

Connect to QU01 with serial interface lines.

10. EXPLODED VIEW AND PARTS LIST



POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)	POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
001B	GOLD	9965 000 01384	FRONT PANEL ALMI GOLD K	312J248110				PACKING	
001B	BLACK		FRONT PANEL ALMI BLACK U	312J248010	001T	/K,/S		USER MANUAL	312J851350
002B		4822 459 11172	BADGE MARANTZ	185J251010	001T	/N	9965 000 01400	USER MANUAL	312J851310
004B		9965 000 01385	REFLECTOR LED	312J274010	001T	/U		USER MANUAL	312J851250
005B	GOLD	9965 000 01386	CHASSIS FRONT MOLD	312J105110					
005B	BLACK		CHASSIS FRONT MOLD	312J105010	Z001			REMOTE COMMANDER	ZK300J0010
006B			MASK WINDOW L	312J303040				RC-18SR	
007B			MASK WINDOW R	312J303050	▲ Z007	/K		MAINS CORD CCEE 2.5A 250V	ZC01803090
008B	GOLD	9965 000 01387	WINDOW	312J158010	▲ Z007	/N,/S	4822 321 11439	MAINS CORD	ZC01803080
008B	BLACK		WINDOW	312J158010				2P 10A 250V CLASS2	
009B			MASK DTS	312J303010	▲ Z007	/U		MAINS CORD	ZC01803100
010B			MASK L R C LFE LS S RS	312J303020	▲ Z009	/N,/S	9965 000 01383	UL CSA 10A 125V	
			PEAK					MAINS CORD	ZC01804070
								10A 250V HONG KONG	
011B	GOLD	9965 000 01388	BUTTON MEMO PRESET	312J270110					
011B	BLACK		BUTTON MEMO PRESET	312J270010					
012B	GOLD	9965 000 01389	BUTTON SURROUND GOLD	312J270120					
012B	BLACK		BUTTON SURROUND BLACK	312J270020					
013B	GOLD	9965 000 01390	BUTTON MODE TONE GOLD	312J270130					
013B	BLACK		BUTTON MODE TONE BLACK	312J270030					
019B		4822 256 92097	HOLDER FL HOLDER	183J271020					
020B		4822 459 11158	STICKER ADHESIVE FOR FL	056J122010					
035B	GOLD	9965 000 01391	KNOB MANI VOL KNOB GOLD	312J154020					
035B	BLACK		KNOB MAIN VOL KNOB BLACK	312J154010					
036B	GOLD	9965 000 01391	KNOB INPUT SELECTOR	312J154020					
036B	BLACK		KNOB INPUT SELECTOR	312J154010					
040B	GOLD	9965 000 01392	LENS IR LENS GOLD	275W355110					
040B	BLACK		LENS IR LENS BLACK	275W355010					
045B		9965 000 01393	LENS STANDBY LENS	312J355010					
050B		9965 000 01394	JOINT POWER JOINT	312J125010					
051B	GOLD	9965 000 01395	BUTTON POWER SW GOLD	255W270110					
051B	BLACK		BUTTON POWER SW BLACK	255W270010					
001C	GOLD	4822 410 11676	ESCUTCHEON	290J063110					
			GYRO UP & DOWN						
001C	BLACK	4822 410 11675	ESCUTCHEON	290J063010					
			GYRO UP & DOWN						
002C	GOLD	9965 000 01396	RUBBER RING GYRO GL	290J066110					
002C	BLACK		RUBBER RING GYRO BL	290J066010					
003C		9965 000 01397	FLYWHEEL GYRO BASE	290J273110					
006C		9965 000 01398	SHAFT GYRO MAIN	290J112010					
009C			RETAINER GYRO UPPER	290J104050					
014C			SHAFT	300J112020					
			GYRO SUSTAINER UNDER						
015C			WASHER FOR UNDER SIDE	59071102G0				NOT STANDARD SPARE PARTS	
020G		4822 462 42045	LEG GLD HOT STAMP FRONT	183J057010	001S	/U		PACKING CASE	312J801010
021G		4822 462 42048	LEG GLD HOT STAMP REAR	183J057110	002S	/U		CUSHION LEFT	312J809010
					003S	/U		CUSHION RIGHT	312J809020
CV09		4822 124 90353	ELECT. 100μF M 10V	OA10701020	Z003	/K,/N,/S		FM ANTENNA 931222R	ZA02800020
▲ L001	/K		POWER TRANSF. 220V 50Hz	TS16675020	Z003	/U	4822 303 30314	FM EXT.ANTENNA	ZA02000070
▲ L001	/N,/S	9965 000 01314	POWER TRANSF. 230V 50Hz	TS16675030	Z004		4822 157 63083	LOOP ANTENNA LA-700HB	LA00055010
▲ L001	/U		POWER TRANSF. 120V 60Hz	TS16675010	Z005	/U	4822 264 30265	PLUG ANT. ADAPTOR	YP90000310
L004		4822 526 10691	FERRITE CORE TFCK-16-8-13	FC50160030	Z006	/K	4822 265 10092	JACK AC ADAPTER S-I6116	YJ04001240
L005		4822 526 10691	FERRITE CORE TFCK-16-8-13	FC50160030	Z008		4822 321 21438	CONNECTIVE CORD	ZD01000330
L006		4822 526 10691	FERRITE CORE TFCK-16-8-13	FC50160030				RCA ST 1M	

11. ELECTRICAL PARTS LIST

ASSIGNMENT OF COMMON PARTS CODES.

RESISTORS

R***: 1) GD05 × × × 140, Carbon film fixed resistor, ±5% 1/4W

R***: 2) GD05 × × × 160, Carbon film fixed resistor, ±5% 1/6W

① — Resistance value

Examples ;

① Resistance value

0.1 Ω 001 10 Ω 100 1 kΩ 102 100 kΩ 104
0.5 Ω 005 18 Ω 180 2.7 kΩ 272 680 kΩ 684
1 Ω 010 100 Ω 101 10 kΩ 103 1 MΩ 105
6.8 Ω 068 390 Ω 391 22 kΩ 223 4.7 MΩ 475

Note : Please distinguish 1/4W from 1/6W by the shape of parts used actually.

CAPACITORS

C***: CERAMIC CAP.

3) DD1 × × × × 370, Ceramic capacitor
Disc type
Temp.coef.P350 ~ N1000, 50V
② — Capacity value
③ — Tolerance

Examples ;

② Tolerance (Capacity deviation)

±0.25 pF 0
±0.5 pF 1
±5% 5

* Tolerance of COMMON PARTS handled here are as follows :

0.5 pF ~ 5 pF ±0.25 pF
6 pF ~ 10 pF ±0.5 pF
12 pF ~ 560 pF ±5%

③ Capacity value

0.5 pF 005 3 pF 030 100 pF 101
1 pF 010 10 pF 100 220 pF 221
1.5 pF 015 47 pF 470 560 pF 561



C*** : CERAMIC CAP.

4) DK16 × × × 300, High dielectric constant ceramic capacitor
Disc type
Temp.chara. 2B4, 50V
④ — Capacity value

Examples ;

④ Capacity value

100 pF 101 1000 pF 102 10000 pF 103
470 pF 471 2200 pF 222

C*** : 5) ELECTROLY CAP. (), 6) FILM CAP. ()

5) EA × × × × × 10, Electrolytic capacitor
One-way lead type, Tolerance ±20%
⑤ — Working voltage
⑥ — Capacity value

Examples ;

⑤ Capacity value

0.1 μF 104 4.7 μF 475 100 μF 107
0.33 μF 334 10 μF 106 330 μF 337
1 μF 105 22 μF 226 1100 μF 118
2200 μF 228

⑥ Working voltage

6.3V 006 25V 025
10V 010 35V 035
16V 016 50V 050

6) DF15 × × × 350 — Plastic film capacitor
DF15 × × × 310 — One-way type, Mylar ±5% 50V
DF16 × × × 310 — Plastic film capacitor
One-way type, Mylar ±10% 50V
⑦ — Capacity value

Examples ;

⑦ Capacity value

0.001 μF (1000 pF) 102 0.1 μF 104
0.0018 μF 182 0.56 μF 564
0.01 μF 103 1 μF 105
0.015 μF 153

NOTE : 1) The above CODES (R***, R***, C***, C*** and C***) are omitted on the schematic diagram in some case.

2) On the occasion, be confirmed the common parts on the parts list.

3) Refer to "Common Parts List" for the other common parts (RI05, DD4, DK4).

NOTE ON SAFETY FOR FUSIBLE RESISTOR :

The suppliers and their type numbers of fusible resistors are as follows;

1. KOA Corporation

Part No. (MJI)	Type No. (KOA)	Description
NH05 × × × 140	RF25S × × × × ΩJ	(±5% 1/4W)
NH05 × × × 120	RF50S × × × × ΩJ	(±5% 1/2W)
NH85 × × × 110	RF73B2A × × × × ΩJ	(±5% 1/10W)
NH95 × × × 140	RF73B2E × × × × ΩJ	(±5% 1/4W)

* Resistance value Resistance value
(0.1 Ω - 10 kΩ)

2. Matsushita Electronic Components Co., Ltd

Part No. (MJI)	Type No. (MEC)	Description
NF05 × × × 140	ERD-2FCJ × × ×	(±5% 1/4W)
RF05 × × × 140		
NF02 × × × 140	ERD-2FCG × × ×	(±2% 1/4W)
RF02 × × × 140		

* Resistance value * Resistance value

Examples ;



* Resistance value

0.1 Ω 001 10 Ω 100 1 kΩ 102 100 kΩ 104
0.5 Ω 005 18 Ω 180 2.7 kΩ 272 680 kΩ 684
1 Ω 010 100 Ω 101 10 kΩ 103 1 MΩ 105
6.8 Ω 068 390 Ω 391 22 kΩ 223 4.7 MΩ 475


ABBREVIATION AND MARKS

ANT. : ANTENNA	BATT. : BATTERY
CAP. : CAPACITOR	CER. : CERAMIC
CONN. : CONNECTING	DIG. : DIGITAL
HP : HEADPHONE	MIC. : MICROPHONE
μ-PRO : MICROPROCESSOR	REC. : RECORDING
RES. : RESISTOR	SPK : SPEAKER
SW : SWITCH	TRANSF. : TRANSFORMER
TRIM. : TRIMMING	TRS. : TRANSISTOR
VAR. : VARIABLE	X'TAL : CRYSTAL

NOTE ON SAFETY :

Symbol  Fire or electrical shock hazard. Only original parts should be used to replaced any part marked with symbol  . Any other component substitution (other than original type), may increase risk of fire or electrical shock hazard.

安全上の注意 :

 がついている部品は、安全上重要な部品です。必ず指定されている部品番号の部品を使用して下さい。

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)	POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
			P104-FM AM TUNER TONE VOL CIRCUIT BOARD P104-CAPACITORS						
CA01		4822 125 50384	TRIM. 20pF VCT51E	CT12000200	CF21		4822 124 22571	ELECT. 10μF 50V	OA10605020
CA02		4822 122 40306	CER. 0.047μF +80%-20% 50V	DK18473310	CF22		4822 124 22571	ELECT. 10μF 50V	OA10605020
CA03		4822 122 31823	CER. 15pF 5% CH 50V BLK	DD15150300	CF31		4822 124 22571	ELECT. 10μF 50V	OA10605020
CA04		4822 121 42466	FILM 390pF 100V ECO-P	DF15391550	CF32		4822 124 22571	ELECT. 10μF 50V	OA10605020
CA05		4822 122 31205	CER. 47pF 5% CH 50V BLK	DD15470300	CF33		4822 124 90354	ELECT. 100μF 16V	OA10701620
CA06		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310	CF34		4822 124 90354	ELECT. 100μF 16V	OA10701620
CA07	/N	4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310	CF35		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310
CA08	/N	4822 125 50384	TRIM. 20pF VCT51E	CT12000200	CF36		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310
CA09	/N	4822 122 31823	CER. 15pF 5% CH 50 V	DD15150300	CF37		4822 124 90354	ELECT. 100μF 16V	OA10701620
CA11	/N	4822 122 31349	CER. 68pF 5% CH 50V	DD15680300	CF38		4822 124 90354	ELECT. 100μF 16V	OA10701620
CA12	/N	4822 122 10367	CER. 150pF 5% 50V	DD15151300	CF39		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310
CA13	/N	4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310	CF40		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310
CA14	/N	4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310					
CA18		4822 124 22274	ELECT. 4.7μF M 50V RA-2	OA47505020	CG51		4822 124 22571	ELECT. 10μF M 50V RA-2	OA10605020
					CG52		4822 124 22571	ELECT. 10μF M 50V RA-2	OA10605020
CC07		4822 124 22571	ELECT. 10μF 50V	OA10605020	CG53				
CC08		4822 124 22571	ELECT. 10μF 50V	OA10605020	CG56				
CC18		4822 124 22571	ELECT. 10μF M 50V RA-2	OA10605020	CG57		4822 122 40617	CER. 0.1μF +80%-20% 50V DC	DD38104010
CC23					CG59		4822 124 90354	ELECT. 100μF 16V	OA10701620
CC26		4822 124 22571	ELECT. 10μF M 50V RA-2	OA10605020	CG60		4822 124 90354	ELECT. 100μF 16V	OA10701620
CC27	/S,/N	4822 122 31205	CER. 47pF 5% CG 50V BLK	DD15470300	CG61		4822 122 40617	CER. 0.1μF +80%-20% 50V DC	DD38104010
CC28	/S,/N	4822 122 31205	CER. 47pF 5% CH 50V BLK	DD15470300	CG62		4822 122 40617	CER. 0.1μF +80%-20% 50V DC	DD38104010
CC31		4822 124 90354	ELECT. 100μF M 16V RA-2	OA10701620	CG63				
CC32		4822 124 90354	ELECT. 100μF M 16V RA-2	OA10701620	CG66		4822 124 22571	ELECT. 10μF M 50V RA-2	OA10605020
CC33		4822 122 40617	CER. 0.1μF +80%-20% 50V DC	DD38104010	CG67		4822 122 40617	CER. 0.1μF +80%-20% 50V DC	DD38104010
CC34		4822 122 40617	CER. 0.1μF +80%-20% 50V DC	DD38104010	CG68		4822 122 40617	CER. 0.1μF +80%-20% 50V DC	DD38104010
CC35		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310	CG69		4822 124 90354	ELECT. 100μF M 16V	OA10701620
CC36		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310	CG70		4822 124 90354	ELECT. 100μF M 16V RA-2	OA10701620
CC39					CV01		4822 122 40617	CER. 0.1μF +80%-20% 50V DC	DD38104010
CC42		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310	CV02		4822 122 40617	CER. 0.1μF +80%-20% 50V DC	DD38104010
CC43			JUMPER	75060501P0	CV08		4822 124 90353	ELECT. 100μF M 10V	OA10701020
CC44			JUMPER	75060501P0					
CC47		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310	C201		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310
CC48		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310	C202		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310
CC51		4822 124 22571	ELECT. 10μF M 50V RA-2	OA10605020	C203		4822 122 40306	CER. 0.047μF +80%-20% 50V	DK18473310
CC52		4822 124 22571	ELECT. 10μF M 50V RA-2	OA10605020	C204		4822 122 40306	CER. 0.047μF +80%-20% 50V	DK18473310
CC55		4822 122 31237	CER. 82pF 5% 50V	DD15820300	C205		4822 124 42182	ELECT. 3.3μF M 50V RA-2	OA33505020
CC56		4822 122 31237	CER. 82pF 5% 50V	DD15820300	C206		4822 124 22571	ELECT. 10μF M 50V RA-2	OA10605020
CC57		4822 124 22571	ELECT. 10μF M 50V RA-2	OA10605020	C207		4822 124 90353	ELECT. 100μF M 10V RA-2	OA10701020
CC58		4822 124 22571	ELECT. 10μF M 50V RA-2	OA10605020	C208		4822 122 40306	CER. 0.047μF +80%-20% 50V	DK18473310
CC59		4822 124 90354	ELECT. 100μF 16V	OA10701620	C209		4822 124 22571	ELECT. 10μF M 50V RA-2	OA10605020
CC60		4822 124 90354	ELECT. 100μF 16V	OA10701620	C210		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310
CC61		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310	C211		4822 124 90357	ELECT. 2.2μF M 50V RA-2	OA22505020
CC62		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310	C212		4822 124 41543	ELECT. 1μF M 50V RA-2	OA10505020
CC71		4822 124 22571	ELECT. 10μF M 50V RA-2	OA10605020	C213		4822 124 22273	ELECT. 0.47μF M 50V RA-2	OA47405020
CC72		4822 124 22571	ELECT. 10μF M 50V RA-2	OA10605020	C214		4822 124 41539	ELECT. 47μF M 16V RA-2	OA47601620
CC77		4822 124 90358	ELECT. 22μF M 16V	OA22601620	C215		4822 122 40306	CER. 0.047μF +80%-20% 50V	DK18473310
CC78		4822 124 90358	ELECT. 22μF M 16V	OA22601620	C216		4822 124 90354	ELECT. 100μF M 16V RA-2	OA10701620
CC79		4822 124 90354	ELECT. 100μF M 16V RA-2	OA10701620	C218		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310
CC80		4822 122 30043	CER. 10pF D CH 50	DK18103310	C219		4822 124 22571	ELECT. 10μF M 50V RA-2	OA10605020
CC81		4822 124 90354	ELECT. 100μF M 16V RA-2	OA10701620	C223		4822 122 40586	CER. 10000pF 10%	DA17103110
CC82		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310	C225		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310
					C226		4822 122 40586	CER. 10000pF 10%	DA17103110
CF01		4822 124 90358	ELECT. 22μF M 16V	OA22601620	C233		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310
CF02		4822 124 90358	ELECT. 22μF M 16V	OA22601620	C234		4822 124 22274	ELECT. 4.7μF M 50V RA-2	OA47505020
CF03		4822 122 31237	CER. 82pF 5% 50V	DD15820300	C235		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310
CF04		4822 122 31237	CER. 82pF 5% 50V	DD15820300	C236		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310
CF05		4822 124 22571	ELECT. 10μF 50V	OA10605020	C237		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310
CF06		4822 124 22571	ELECT. 10μF 50V	OA10605020					
CF15		4822 124 22571	ELECT. 10μF 50V	OA10605020	C303		4822 124 22571	ELECT. 10μF M 50V RA-2	OA10605020
CF16		4822 124 22571	ELECT. 10μF 50V	OA10605020	C304		4822 124 22571	ELECT. 10μF M 50V RA-2	OA10605020
CF17		4822 124 90358	ELECT. 22μF M 16V	OA22601620	C305	/K,/N,/S	4822 124 22274	ELECT. 4.7μF M 50V RA-2	OA47505020
CF18		4822 124 90358	ELECT. 22μF M 16V	OA22601620	C306	/K,/N,/S	4822 124 22274	JUMPER	75060501P0
CF19		4822 126 10364	CER. 100pF 10%	DA16101110	C306	/U		ELECT. 4.7μF M 50V RA-2	OA47505020
CF20		4822 126 10364	CER. 100pF 10%	DA16101110	C311		4822 124 22274	ELECT. 4.7μF M 50V RA-2	OA47505020
					C312		4822 124 22274	ELECT. 4.7μF M 50V RA-2	OA47505020

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)	POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
C313	/K,/N,/S	4822 124 41539	ELECT. 47μF M 16V RA-2	OA47601620	▲ R313	/K	4822 116 83929	220Ω ±5% 1/4W	GG05221140
C314	/K,/N,/S	4822 124 41539	ELECT. 47μF M 16V RA-2	OA47601620	▲ R314	/K,/N,/S	4822 116 83929	220Ω ±5% 1/4W	GG05221140
C315	/K,/N,/S	4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310	R356	/S,/N	4822 053 10471	470Ω ±5% 1W	GA05471010
C316	/K,/N,/S	4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310	▲ R512		4822 053 10271	270Ω ±5% 1W	GA05271010
C351	/S,/N	4822 122 40586	CER. 10000p ±10%	DA17103110	R516		4822 130 32362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
C352	/S,/N	4822 124 22571	ELECT. 10μF M 50V RA-2	OA10605020					
C356	/S,/N	4822 126 11553	CER. 15pF ±5% 50V	DA15150120					
C357	/S,/N	4822 126 11553	CER. 15pF ±5% 50V	DA15150120					
C358	/S,/N	4822 124 22571	ELECT. 10μF M 50V RA-2	OA10605020					
C361	/S,/N	4822 126 10364	CER. 100pF ±10%	DA16101110					
C362	/S,/N	4822 126 10364	CER. 100pF ±10%	DA16101110					
C363	/S,/N	4822 126 10364	CER. 100pF ±10%	DA16101110					
C364	/S,/N	4822 126 10364	CER. 100pF ±10%	DA16101110					
C365	/S,/N	4822 124 41539	ELECT. 47μF M 16V	OA47601620					
C366	/S,/N	4822 124 41543	ELECT. 1μF M 50V RA-2	OA10505020					
C373	/S,/N	4822 122 30043	CER. 10000p +80%-20%	DK18103310					
C374	/S,/N	4822 122 40617	CER. 0.1μF +80%-20% 50V	DD38104010					
C501		4822 122 31205	CER. 47pF ±5% CH 50V BLK	DD15470300					
C502		4822 122 31205	CER. 47pF ±5% CH 50V BLK	DD15470300					
C503		4822 124 90353	ELECT. 100μF M 10V RA-2	OA10701020					
C504		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310					
C505		4822 124 90357	ELECT. 2.2μF M 50V RA-2	OA22505020					
C507		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310					
C508		4822 124 90354	ELECT. 100μF M 16V RA-2	OA10701620					
C511		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310					
C***			P104-CAPACITORS (COMMON) HIGH DIELECTRIC CONSTANT CER. CAPACITOR ±10% 50V : C220 C222 C227/[U] (C317 C318/[K,/N,/S]) (C353 C354/[N,/S]) C367 C368 C371 C372 C510 CC83 (CC89-CC92/[N,/S]) CV03 CV05-CV07						
C***			PLASTIC FILM CAPACITOR ±5% 50V : C217 C301 C302 (C309 C310[K1]) CC01-CC04 CC14-CC17 CC75 CC76 CF07-CF14 CF23-CF30						
RA11		4822 100 11351	TRIM. 10kΩ RH0638CJ4R	RA01030780					
RC01			JUMPER	75060501P0					
RC02			JUMPER	75060501P0					
RC16			JUMPER	75060501P0					
RC19			JUMPER	75060501P0					
RC51			JUMPER	75060501P0					
RC52			JUMPER	75060501P0					
RF37			JUMPER	75060501P0					
RF38			JUMPER	75060501P0					
RG55			JUMPER	75060501P0					
RG56			JUMPER	75060501P0					
RG59			JUMPER	75060501P0					
RG60			JUMPER	75060501P0					
▲ R101	/U	4822 050 21003	10kΩ ±5% 1/2W	GG05103120					
R201	/U		JUMPER	75060501P0					
▲ R207		4822 050 21801	180Ω ±5% 1/4W	GG05181140					
R211	/K	4822 100 11352	TRIM. 22kΩ RH0638CJ4R	RA02230780					
R211	/S	4822 100 11352	TRIM. 22kΩ RH0638CJ4R	RA02230780					
R211	/N	4822 100 11352	TRIM. 22kΩ RH0638CJ4R	RA02230780					
R211	/U	4822 100 11351	TRIM. 10kΩ RH0638CS3R	RA01030780					
R212		4822 100 11351	TRIM. 10kΩ RH0638CS3R	RA01030780					
▲ R217		4822 050 21801	180Ω ±5% 1/4W	GG05181140					
R301									
}									
R304	/U		JUMPER	75060501P0					
DA01							4822 125 50416	DIODE VARISVC342-L	HD40009030
DA02	/K,/S,/U							JUMPER	75060501P0
DA02	/N						4822 130 33697	DIODE 1SS135	HD20017210
DA03	/N						4822 125 50416	DIODE VARISVC342-L	HD40009030
DA04	/N						4822 130 33697	DIODE 1SS135	HD20017210
DA05							4822 130 32362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
DA06							4822 130 32362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
DF01							4822 130 32362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
DF02							4822 130 32362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
DF03							9965 000 01363	DIODE 1SS201	HE10201050
DF04							9965 000 01363	DIODE 1SS201	HE10201050
DV05									
}							4822 130 32362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
DV13									
D201							4822 130 32362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
D202							4822 130 80319	ZENER DIODE 9.1V	HD30911000
D351	/S,/N						4822 130 80317	RD9.1JB2 MTZJ9.1C 04AZ9.1-Z	HD30511000
D501							4822 130 80317	RD5.1JB2 MTZJ5.1B 04AZ5.1-Y	HD30511000
D502	/N						4822 130 32362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
D503	/N						4822 130 32362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
QA01	/N						4822 130 41947	TRS. 2SC536SP 2SC2458 2SC1740S 2SC3199 2SC3311A	HT30001000
QA02	/N						4822 130 41947	TRS. 2SC536SP 2SC2458 2SC1740S 2SC3199 2SC3311A	HT30001000
QA03	/N						4822 130 61892	TRS. 2SD2144	HT421442A0
QA04	/N						4822 130 42682	DIG. TRS.	BA10002000
QA05	/N						4822 130 42682	DTA144ES UN4113 47k 47k	BA10002000
QA06	/N						4822 130 60588	DIG. TRS.	BA20001000
								DTC114ES UN4211 10K 10K	

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QC01 }		4822 209 73064	IC NJM2068DD	HC10053090	L301 L302 L350 }		4822 157 71731 4822 157 71731	M.P.X. COIL 19 38kHz M.P.X. COIL 19 38kHz	LS10293020 LS10293020	
QC05 QC06 QC07 QC51 QC71 QC72 QF01 QF02 QF03 QF04 QG51 QG52 QG53 QG54 QG55 QV01 QV02 }		4822 209 32554 4822 209 62784 4822 209 73064 4822 209 73064 4822 209 62784 4822 209 73064 9965 000 01365 4822 209 73064 9965 000 01365 9965 0000 1373 9965 0000 1373 9965 0000 1373 4822 209 17155 4822 209 17155 4822 209 90532	IC LC78213 IC TC9215P IC NJM2068DD IC NJM-2068-DD IC TC9215P ANALOGUE SW IC NJM2068DD IC TC9184AP ELE TONE IC NJM2068DD IC TC9184AP ELE TONE IC TC9459F ELE-VOLUME IC TC9459F ELE-VOLUME IC TC9459F ELE-VOLUME IC NJM2068M IC NJM2068M IC NJU3713D	HC10310030 HC10262050 HC10053090 HC10053090 HC10262050 HC10053090 HC10444050 HC10053090 HC10444050 HC10449050 HC10449050 HC10449050 HC10102090 HC10102090 HC10161090		L356 L359 L501 }	/N,/S /N,/S	4822 157 62911 4822 157 62911	CHOKE LAL02TA3R3J 3.3μH CHOKE COIL LAL02TA3R3J 3.3μH	LC13323800 LC13323800
QV05 QV06 QV07 } QV12		4822 130 61227 4822 130 60588 4822 130 43818	DIG.TRS. DTA114ES UN4111 10K 10K DIG.TRS. DTC114ES UN4211 10K 10K TRS. 2SC2878 A OR BRANK	BA10001000 BA20001000 HT328782A0	CD01 CD02 CD03 CD05 CD06 CD07 CD09 CD10 CD11 CD13 CD14 CD15 CD17 CD18 CD19 CD21 CD22 CD23 CD25 CD26 CD27 CD29 CD30 CD31		4822 126 11687 4822 126 11687 4822 126 11687 4822 124 90353 4822 124 90353 4822 124 90353 4822 124 21894 4822 124 21894 4822 124 21894 4822 124 21894 4822 126 11687 4822 126 11687 4822 126 11687 4822 124 21894 4822 124 21894 4822 124 21894 4822 124 90353 4822 124 90353 4822 124 90353 4822 126 11687 4822 126 11687 4822 126 11687 5322 126 11578 5322 126 11578 5322 126 11578	CER. 0.1μF +80%-20% CER. 0.1μF +80%-20% CER. 0.1μF +80%-20% ELECT. 100μF M 10V RA-2 ELECT. 100μF M 10V RA-2 ELECT. 100μF M 10V RA-2 ELECT. 10μF 16V ELECT. 10μF 16V ELECT. 10μF 16V CER. 0.1μF +80%-20% CHIP CER. 0.1μF +80%-20% CHIP CER. 0.1μF +80%-20% CHIP ELECT. 10μF 16V ELECT. 10μF 16V ELECT. 10μF 16V ELECT. 100μF M 10V RA-2 ELECT. 100μF M 10V RA-2 ELECT. 100μF M 10V RA-2 CER. 0.1μF +80%-20% CHIP CER. 0.1μF +80%-20% CHIP CER. 0.1μF +80%-20% CHIP CER. 1000pF B 50V CHIP CER. 1000pF B 50V CHIP CER. 1000pF B 50V CHIP	DK98104200 DK98104200 DK98104200 OA10701020 OA10701020 OA10701020 EJ10601610 EJ10601610 EJ10601610 DK98104200 DK98104200 DK98104200 EJ10601610 EJ10601610 EJ10601610 OA10701020 OA10701020 OA10701020 DK98104200 DK98104200 DK98104200 DK96102300 DK96102300 DK96102300	
Q201 Q202 Q203 Q204 Q209 /S Q209 /N Q301 Q301 Q301 Q351 Q351 Q352		9965 000 01369 4822 130 62294 4822 130 61227 4822 130 42594 4822 130 41947 4822 130 41947 4822 209 83631 4822 209 83631 4822 209 83631 4822 209 16175 4822 209 16175 4822 130 61227	IC LA1837 FM AM IF MPX IC TRS. 2SC1809S P 150mW DIG.TRS. DTA114ES UN4111 10K 10K DIG.TRS. DTC144ES UN4213 47K 47K TRS. 2SC2458 2SC1740 2SC3199 TRS. 2SC2458 2SC1740 2SC3199 IC NJM4558D-D IC NJM4558D-D IC NJM4558D-D IC LC72720 RDS DECODER IC LC72720 RDS DECODER DIG.TRS.	HC10384030 HT318091P0 BA10001000 BA20002000 HT30001000 HT30001000 HC10008090 HC10008090 HC10008090 HC10385030 HC10385030 BA10001000		CD17 CD18 CD19 CD21 CD22 CD23 CD25 CD26 CD27 CD29 CD30 CD31		4822 124 21894 4822 126 11687 4822 126 11687 4822 124 90353 4822 124 90353 4822 124 90353 4822 124 21894 4822 124 21894 4822 124 21894 4822 124 21894 4822 126 11687 4822 126 11687 4822 126 11687 5322 126 11578 5322 126 11578 5322 126 11578	CER. 0.1μF +80%-20% CHIP CER. 0.1μF +80%-20% CHIP CER. 0.1μF +80%-20% CHIP ELECT. 10μF 16V ELECT. 10μF 16V ELECT. 10μF 16V ELECT. 100μF M 10V RA-2 ELECT. 100μF M 10V RA-2 ELECT. 100μF M 10V RA-2 CER. 0.1μF +80%-20% CHIP CER. 0.1μF +80%-20% CHIP CER. 0.1μF +80%-20% CHIP CER. 1000pF B 50V CHIP CER. 1000pF B 50V CHIP CER. 1000pF B 50V CHIP	DK98104200 DK98104200 DK98104200 OA10701020 OA10701020 OA10701020 EJ10601610 EJ10601610 EJ10601610 DK98104200 DK98104200 DK98104200 DK96102300 DK96102300 DK96102300
Q352 Q352 /N Q353 /S Q353 /N Q501 A101 FA01 F201 F202 JC05 JC06 J101 LA01 LA02 LA03 LA04 LA05 LA06 L201		4822 130 61227 4822 130 60588 4822 130 60588 9965 000 01370 9965 000 01368 4822 242 70665 4822 242 70665 9965 000 01315 9965 000 01316 4822 290 81632 4822 157 63084 4822 157 70779 4822 157 52714 4822 157 70781 4822 157 53589 4822 148 81095 4822 157 63904	DTA114ES UN4111 10K 10K DIG.TRS. DTA114ES UN4111 10K 10K DIG.TRS. DTC114ES UN4211 10K 10K DIG.TRS. DTC114ES UN4211 10K 10K IC LC72130 P104-MISCELLANEOUS VHF TUNER TFFJ4E CER. FILTER SFZ450JL3 451K CER. FILTER SFE10.7MS3-A CER. FILTER SFE10.7MS3-A TERMINAL RCA 2P DIRECT IN TERMINAL RCA SURR IN L R TERMINAL FM AM ANT PAL MW ANT COIL 280μH MW OSC COIL LW-ANT COIL LW-OSC COIL CHOKE COIL 39mH J I.F.T. COIL AM IFT K7-H5 I.F.T. COIL FM DET	BA10001000 BA20001000 BA20001000 HC10394030 AV00903010 FF10045410 FF11070620 FF11070620 YT02021550 YT02021500 YT03030020 LA10295170 LO70013010 LA10295160 LO70013020 LC23960710 LI70033510 LI70376010		CD41 CD42 CD43 CD44 CD45 CD46 CD47 CD48 CD49 CD50 CD51 CD52 CD53 CD54 CD55 CD56 CD61 CD62 CD63 } CD74 CD81 } CD92	4822 126 11687 4822 126 11687 4822 124 90353 4822 124 90353 4822 124 21894 4822 124 21894 4822 126 11687 4822 126 11687 4822 124 21894 4822 124 21894 4822 124 21894 4822 124 90353 4822 124 90353 4822 124 90353 5322 126 11578 5322 126 11578 4822 124 90353 4822 124 90353 4822 124 90353 4822 126 11687 4822 126 11703	CER. 0.1μF +80%-20% CHIP CER. 0.1μF +80%-20% CHIP ELECT. 100μF M 10V RA-2 ELECT. 100μF M 10V RA-2 ELECT. 10μF 16V ELECT. 10μF 16V CER. 0.1μF +80%-20% CHIP CER. 0.1μF +80%-20% CHIP ELECT. 10μF 16V ELECT. 10μF 16V ELECT. 100μF M 10V RA-2 ELECT. 100μF M 10V RA-2 CER. 0.1μF +80%-20% CHIP CER. 0.1μF +80%-20% CHIP CER. 1000pF B 50V CHIP CER. 1000pF B 50V CHIP ELECT. 100μF M 10V RA-2 ELECT. 100μF M 10V RA-2 CER. 0.1μF +80%-20% CHIP	DK98104200 DK98104200 OA10701020 OA10701020 EJ10601610 EJ10601610 DK98104200 DK98104200 EJ10601610 EJ10601610 OA10701020 OA10701020 DK98104200 DK98104200 DK96102300 DK96102300 OA10701020 OA10701020 DK98104200 DK98103300	

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CD93 }		4822 124 90363	ELECT. 220µF M 10V RA-2	OA22701020	CH82		4822 124 41535	ELECT. 100µF M 25V RA-2	OA10702520
CD96					CH83		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
CD97		4822 124 41535	ELECT. 100µF M 25V RA-2	OA10702520	CH84		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
CD98		4822 124 41535	ELECT. 100µF M 25V RA-2	OA10702520	CH85		4822 122 33761	CER. 22pF 5% CG50V CHIP	DD95220300
					CH86		4822 122 33761	CER. 22pF 5% CG50V CHIP	DD95220300
CE01		4822 126 11567	CER. 0.022µF 10% 16V CHIP	DK96223200	CJ05				
CE02		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020	}		4822 121 10792	FILM 220pF 5% 100VPP	OF15221540
CE03		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200	CJ08				
CE04		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020	CJ11		4822 124 41539	ELECT. 47µF M 16V RA-2	OA47601620
CE05		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200	CJ12		4822 124 41539	ELECT. 47µF M 16V RA-2	OA47601620
CE06		5322 126 11578	CER. 1000pF 10% B 50V CHIP	DK96102300	CJ13				
CE11		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200	}		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
CE13		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200	CJ16				
CE14		4822 122 33753	CER. 150pF 5% CG 50V CHIP	DD95151300	CJ17		4822 122 33761	CER. 22pF 5% CG50V CHIP	DD95220300
CE15		4822 122 33753	CER. 150pF 5% CG 50V CHIP	DD95151300	CJ18		4822 122 33761	CER. 22pF 5% CG50V CHIP	DD95220300
CE18		4822 126 13837	CER. 0.1µF 10% B 10V CHIP	DK96104200	CJ21		4822 124 41535	ELECT. 100µF M 25V RA-2	OA10702520
CE19		4822 126 14417	CER. 0.01µF 10% 50V CHIP	DK96103300	CJ22		4822 124 41535	ELECT. 100µF M 25V RA-2	OA10702520
					CJ23		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
CE33		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020	CJ24		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
CE34		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200	CJ55				
CE35		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020	}		4822 121 10792	FILM 220pF 5% 100VPP	OF15221540
CE36		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200	CJ58				
CE37		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200	CJ59		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
CE39		4822 124 12389	ELECT. 47µF 16V BP	EQ47601630	CJ60		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
CE42		4822 126 14417	CER. 0.01µF 10% 50V CHIP	DK96103300	CJ61		4822 122 33761	CER. 22pF 5% CG50V CHIP	DD95220300
CE43		4822 126 14417	CER. 0.01µF 10% 50V CHIP	DK96103300	CJ62		4822 122 33761	CER. 22pF 5% CG50V CHIP	DD95220300
CE44		4822 122 33752	CER. 18pF 50V 5% CHIP	DD95150300	CJ75				
CE45		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200	}		4822 121 10792	FILM 220pF 5% 100VPP	OF15221540
CE46		4822 122 33757	CER. 18pF CHIP	DD95180300	CJ78				
CE51		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200	CJ79		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
CE52		5322 126 11578	CER. 1000pF B 50V CHIP	DK96102300	CJ80		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
CE53		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200	CJ81		4822 122 33761	CER. 22pF 5% CG50V CHIP	DD95220300
CE54		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200	CJ82		4822 122 33761	CER. 22pF 5% CG50V CHIP	DD95220300
CE56 }		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200	CK01				
CE60					}		4822 124 90352	ELECT. 10µF M 16V RA-2	OA10601620
CE61		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020	CK04				
CE62		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020	CK05				
CE63		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200	}		4822 126 11696	CER. 470pF 5% J SL CHIP	DD95471370
CE65		4822 126 11703	CER. 0.01µF +80%-20% CHIP	DK98103300	CK08				
CE66		4822 126 11703	CER. 0.01µF +80%-20% CHIP	DK98103300	CK11				
					}		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
CH05 }		4822 121 10792	FILM 220pF 5% 100VPP	OF15221540	CK20				
CH08					CK21		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
CH14		4822 124 41539	ELECT. 47µF M 16V RA-2	OA47601620	CK22		4822 124 21894	ELECT. 10µF 16V	EJ10601610
CH15 }		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200	CK23		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
CH18					CK24		5322 126 11583	CER. 0.01µF 10% B 25V CHIP	DK96103200
CH26		4822 124 41539	ELECT. 47µF M 16V RA-2	OA47601620	CK25		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
CH27		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200	CK26		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
CH28		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200	CK27		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
CH31		4822 124 41535	ELECT. 100µF M 25V RA-2	OA10702520	CK28		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
CH32		4822 124 41535	ELECT. 100µF M 25V RA-2	OA10702520	CK30		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
CH33		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200	CK31		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
CH34		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200	CK33		4822 124 41535	ELECT. 100µF M 25V RA-2	OA10702520
CH35		4822 122 33761	CER. 22pF 5% CG50V CHIP	DD95220300	CK34		4822 124 41535	ELECT. 100µF M 25V RA-2	OA10702520
CH36		4822 122 33761	CER. 22pF 5% CG50V CHIP	DD95220300	CK35				
CH55 }		4822 121 10792	FILM 220pF 5% 100VPP	OF15221540	}		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
CH58					CK40				
CH64		4822 124 41539	ELECT. 47µF M 16V RA-2	OA47601620	CK41		4822 124 21894	ELECT. 10µF 16V	EJ10601610
CH65 }		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200	CK42		4822 124 21894	ELECT. 10µF 16V	EJ10601610
CH68					CK43		4822 124 41539	ELECT. 47µF M 16V RA-2	OA47601620
CH76		4822 124 41539	ELECT. 47µF M 16V RA-2	OA47601620	CK44		4822 124 41539	ELECT. 47µF M 16V RA-2	OA47601620
CH77		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200	CK45		4822 122 33761	CER. 22pF 5% CG50V CHIP	DD95220300
CH78		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200	CK46		4822 122 33761	CER. 22pF 5% CG50V CHIP	DD95220300
CH81		4822 124 41535	ELECT. 100µF M 25V RA-2	OA10702520	CR01		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
					CR02		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020
					CR03		4822 126 11687	CER. 0.1µF +80%-20% CHIP	DK98104200
					CR04		4822 124 90353	ELECT. 100µF M 10V RA-2	OA10701020

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)	POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
CR05		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200	C693		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200
CR06		4822 124 90353	ELECT. 100μF M 10V RA-2	OA10701020	C694		4822 124 90353	ELECT. 100μF M 10V RA-2	OA10701020
CR07		4822 126 13837	CER. 0.1μF ±10% B 10V CHIP	DK96104200	C695		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200
CR08		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200	C696		5322 126 11583	CER. 0.01μF ±10% B 25V CHIP	DK96103200
CR10		4822 126 11568	CER. 470pF CHIP	DK96471300	C697		5322 126 11583	CER. 0.01μF ±10% B 25V CHIP	DK96103200
CR11		4822 126 13837	CER. 0.1μF ±10% B 10V CHIP	DK96104200	C***			P604-CAPACITORS (COMMON) PLASTIC FILM CAPACITOR ±5% 50V : CE31 CE32 CE41 CH01-CH04 CH13 CH25 CH51-CH54 CH63 CH75 CJ01-CJ04 CJ09 CJ10 CJ51-CJ54 CJ71-CJ74 CK09 CK10 CR19	
CR12		4822 126 13837	CER. 0.1μF ±10% B 10V CHIP	DK96104200					
CR13		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200					
CR14		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200					
CR15		4822 124 90353	ELECT. 100μF M 10V RA-2	OA10701020					
CR16		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200					
CR17		4822 124 90353	ELECT. 100μF M 10V RA-2	OA10701020					
CR18		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200					
CR20		5322 126 11583	CER. 0.01μF ±10% B 25V CHIP	DK96103200					
CR21		5322 126 11583	CER. 0.01μF ±10% B 25V CHIP	DK96103200					
CR22		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200	RD01		4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
CR25					RD05		4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
CR26					RD07		4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
CR27					RD61		4822 116 82487	CHIP 0Ω ±5% 1/16W	NN05000610
CR28		4822 124 90353	ELECT. 100μF M 10V RA-2	OA10701020	RD61				
CR29		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200	RD61				
CR30		5322 126 11578	CER. 1000pF ±10% B 50V CHIP	DK96102300	RD66		4822 116 82487	CHIP 0Ω ±5% 1/16W	NN05000610
					RD92				
					RD94		4822 116 82487	CHIP 0Ω ±5% 1/16W	NN05000610
C601		4822 126 11703	CER. 0.01μF +80%-20% CHIP	DK98103300	RE01		4822 051 30561	CHIP 560Ω ±5% 1/16W	NN05561610
C602		4822 126 11703	CER. 0.01μF +80%-20% CHIP	DK98103300	RE02		4822 051 30101	CHIP 100Ω ±5% 1/16W	NN05101610
C603		4822 124 90353	ELECT. 100μF M 10V RA-2	OA10701020	RE03		4822 051 30102	CHIP 1kΩ ±5% 1/16W	NN05102610
C604		4822 126 11703	CER. 0.01μF +80%-20% CHIP	DK98103300	RE03		4822 051 30102	CHIP 1kΩ ±5% 1/16W	NN05102610
C605		4822 126 11703	CER. 0.01μF +80%-20% CHIP	DK98103300	RE04		4822 116 83211	CHIP 1.8kΩ ±5% 1/16W	NN05182610
C606		4822 124 90353	ELECT. 100μF M 10V RA-2	OA10701020	RE05		4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
C607		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200	RE06		4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
C608		4822 122 33761	CER. 22pF ±5% CG 50V CHIP	DD95220300	RE07		4822 051 30472	CHIP 4.7kΩ ±5% 1/16W	NN05472610
C609		4822 122 33761	CER. 22pF ±5% CG 50V CHIP	DD95220300	RE08		4822 116 82487	CHIP 0Ω ±5% 1/16W	NN05000610
C610		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200	RE10		4822 051 30102	CHIP 1kΩ ±5% 1/16W	NN05102610
C611		4822 124 90353	ELECT. 100μF M 10V RA-2	OA10701020	RE11		4822 051 30472	CHIP 4.7kΩ ±5% 1/16W	NN05472610
C612		4822 126 11568	CER. 470pF ±10% CHIP	DK96471300	RE12		4822 051 30102	CHIP 1kΩ ±5% 1/16W	NN05102610
C613		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200	RE13		4822 051 30151	CHIP 150Ω ±5% 1/16W	NN05151610
C614		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200	RE14		4822 051 30222	CHIP 2.2kΩ ±5% 1/16W	NN05222610
C615		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200	RE15		4822 051 30102	CHIP 1kΩ ±5% 1/16W	NN05102610
C616		5322 126 11583	CER. 0.01μF ±10% B 25V CHIP	DK96103200	RE15				
C617		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200	RE18		4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
C618		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200	RE19				
C619		4822 124 90353	ELECT. 100μF M 10V RA-2	OA10701020					
C620		4822 124 90353	ELECT. 100μF M 10V RA-2	OA10701020	RE20		4822 051 30102	CHIP 1kΩ ±5% 1/16W	NN05102610
C621		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200	RE21		4822 051 30102	CHIP 1kΩ ±5% 1/16W	NN05102610
C622		4822 124 90353	ELECT. 100μF M 10V RA-2	OA10701020	RE22		4822 051 30472	CHIP 4.7kΩ ±5% 1/16W	NN05472610
C623		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200	RE23		4822 051 30102	CHIP 1kΩ ±5% 1/16W	NN05102610
C624		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200	RE24		4822 051 30332	CHIP 3.3kΩ ±5% 1/16W	NN05332610
C625		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200	RE25		4822 051 30822	CHIP 8.2kΩ ±5% 1/16W	NN05822610
C626		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200	RE31		4822 051 30392	CHIP 3.9kΩ ±5% 1/16W	NN05392610
C651		4822 126 11703	CER. 0.01μF +80%-20% CHIP	DK98103300	RE32		4822 051 30472	CHIP 4.7kΩ ±5% 1/16W	NN05472610
C652		4822 126 11703	CER. 0.01μF +80%-20% CHIP	DK98103300	RE33		4822 051 30104	CHIP 100kΩ ±5% 1/16W	NN05104610
C653		4822 124 90353	ELECT. 100μF M 10V RA-2	OA10701020	RE34		4822 051 30223	CHIP 22kΩ ±5% 1/16W	NN05223610
C654		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200	RE35		4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
C655		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200	RE41		4822 051 30223	CHIP 22kΩ ±5% 1/16W	NN05223610
C656		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200	RE42		4822 051 30683	CHIP 68kΩ ±5% 1/16W	NN05683610
C657		4822 124 90353	ELECT. 100μF M 10V RA-2	OA10701020	RE43		4822 116 83206	CHIP 120Ω ±5% 1/16W	NN05121610
C658		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200	RE44		4822 051 30473	CHIP 47kΩ ±5% 1/16W	NN05473610
C662					RE45		4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
C663					RE46		4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
C664					RE47		4822 051 30473	CHIP 47kΩ ±5% 1/16W	NN05473610
C666		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200	RE48		4822 051 30473	CHIP 47kΩ ±5% 1/16W	NN05473610
C667		4822 124 90353	ELECT. 100μF M 10V RA-2	OA10701020	RE49		4822 051 30473	CHIP 47kΩ ±5% 1/16W	NN05473610
C668		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200					
C669		4822 126 14417	CER. 0.01μF B 50V CHIP	DK96103300	RE50		4822 117 12139	CHIP 22Ω ±5% 1/16W	NN05220610
C670		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200	RE61		4822 051 30104	CHIP 100kΩ ±5% 1/16W	NN05104610
C680		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200	RE62		4822 051 30102	CHIP 1kΩ ±5% 1/16W	NN05102610
C691		4822 126 14417	CER. 0.01μF B 50V CHIP	DK96103300	RE63		4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
C692		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200	RE64		4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610
					RE65		4822 116 82487	CHIP 0Ω ±5% 1/16W	NN05000610

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)	POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
RE67		4822 116 82487	CHIP 0Ω 5% 1/16W	NN05000610	RK01				
RE68		4822 116 82487	CHIP 0Ω 5% 1/16W	NN05000610	}		4822 051 30103	CHIP 10kΩ 5% 1/16W	NN05103610
RH01					RK04				
}		4822 116 83211	CHIP 1.8kΩ 5% 1/16W	NN05182610	RK05		4822 116 83339	CHIP 56Ω 5% 1/16W	NN05560610
RH12					RK06		4822 116 83339	CHIP 56Ω 5% 1/16W	NN05560610
RH13					}		4822 051 30472	CHIP 4.7kΩ 5% 1/16W	NN05472610
}		4822 051 30222	CHIP 2.2kΩ 5% 1/16W	NN05222610	RK18				
RH19					RK19				
RH21		4822 051 30152	CHIP 1.5kΩ 5% 1/16W	NN05152610	}		4822 051 30399	CHIP 39Ω 5% 1/16W	NN05390610
RH22		4822 051 30222	CHIP 2.2kΩ 5% 1/16W	NN05222610	RK22				
RH23		4822 116 83208	CHIP 12kΩ 5% 1/16W	NN05123610	RK23		4822 051 30103	CHIP 10kΩ 5% 1/16W	NN05103610
RH24		4822 051 30101	CHIP 100Ω 5% 1/16W	NN05101610	RK24		4822 051 30103	CHIP 10kΩ 5% 1/16W	NN05103610
RH25		4822 051 30104	CHIP 100kΩ 5% 1/16W	NN05104610	RK31		4822 051 30101	CHIP 100Ω 5% 1/16W	NN05101610
RH26					RK32		4822 051 30472	CHIP 4.7kΩ 5% 1/16W	NN05472610
}		4822 051 30222	CHIP 2.2kΩ 5% 1/16W	NN05222610	RK34		4822 051 30101	CHIP 100Ω 5% 1/16W	NN05101610
RH32					RK35				
RH34		4822 051 30152	CHIP 1.5kΩ 5% 1/16W	NN05152610	}		4822 526 10584	FERRITE CORE	FC90090010
RH35		4822 051 30222	CHIP 2.2kΩ 5% 1/16W	NN05222610	RK37			ZBF503D-00TA	
RH36		4822 116 83208	CHIP 12kΩ 5% 1/16W	NN05123610					
RH37		4822 051 30101	CHIP 100Ω 5% 1/16W	NN05101610	RR01		4822 051 30759	CHIP 75Ω 5% 1/16W	NN05750610
RH38		4822 051 30104	CHIP 100kΩ 5% 1/16W	NN05104610	RR02		4822 051 30759	CHIP 75Ω 5% 1/16W	NN05750610
RH39		4822 051 30222	CHIP 2.2kΩ 5% 1/16W	NN05222610	RR03		4822 051 30104	CHIP 100kΩ 5% 1/16W	NN05104610
					RR04		4822 051 30104	CHIP 100kΩ 5% 1/16W	NN05104610
RH40		4822 051 30222	CHIP 2.2kΩ 5% 1/16W	NN05222610	RR05		4822 051 30472	CHIP 4.7kΩ 5% 1/16W	NN05472610
RH41		4822 051 30103	CHIP 10kΩ 5% 1/16W	NN05103610	RR06		4822 051 30472	CHIP 4.7kΩ 5% 1/16W	NN05472610
RH42		4822 051 30105	CHIP 1MΩ 5% 1/16W	NN05105610	RR07		4822 051 30339	CHIP 33Ω 5% 1/16W	NN05330610
RH51		4822 116 83211	CHIP 1.8kΩ 5% 1/16W	NN05182610	RR08		4822 051 30339	CHIP 33Ω 5% 1/16W	NN05330610
RH52		4822 116 83211	CHIP 1.8kΩ 5% 1/16W	NN05182610	RR09		4822 051 30759	CHIP 75Ω 5% 1/16W	NN05750610
RH53					RR10		4822 051 30391	CHIP 390Ω 5% 1/16W	NN05391610
}		4822 116 83211	CHIP 1.8kΩ 5% 1/16W	NN05182610	RR12				
RH62					}		4822 116 82487	CHIP 0Ω 5% 1/16W	NN05000610
RH63					RR15				
}		4822 051 30222	CHIP 2.2kΩ 5% 1/16W	NN05222610	RR16		4822 051 30103	CHIP 10kΩ 5% 1/16W	NN05103610
RH69					RR17				
RH72		4822 051 30222	CHIP 2.2kΩ 5% 1/16W	NN05222610	}		4822 116 82487	CHIP 0Ω 5% 1/16W	NN05000610
RH73		4822 116 83208	CHIP 12kΩ 5% 1/16W	NN05123610	RR20				
RH74		4822 051 30101	CHIP 100Ω 5% 1/16W	NN05101610	RR21		4822 051 30103	CHIP 10kΩ 5% 1/16W	NN05103610
RH75		4822 051 30104	CHIP 100kΩ 5% 1/16W	NN05104610	RR22		4822 051 30103	CHIP 10kΩ 5% 1/16W	NN05103610
RH76					RR23		4822 051 30102	CHIP 1kΩ 5% 1/16W	NN05102610
}		4822 051 30222	CHIP 2.2kΩ 5% 1/16W	NN05222610	RR24		4822 051 30102	CHIP 1kΩ 5% 1/16W	NN05102610
RH82					RR25		4822 051 30759	CHIP 75Ω 5% 1/16W	NN05750610
RH85		4822 051 30472	CHIP 4.7kΩ 5% 1/16W	NN05472610	RR27				
RH86		4822 051 30222	CHIP 2.2kΩ 5% 1/16W	NN05222610	}		4822 051 30103	CHIP 10kΩ 5% 1/16W	NN05103610
RH87		4822 051 30101	CHIP 100Ω 5% 1/16W	NN05101610	RR84				
RH88		4822 051 30104	CHIP 100kΩ 5% 1/16W	NN05104610					
					R601		4822 051 30105	CHIP 1MΩ 5% 1/16W	NN05105610
RJ01					R602		4822 051 30103	CHIP 10kΩ 5% 1/16W	NN05103610
}		4822 116 83211	CHIP 1.8kΩ 5% 1/16W	NN05182610	R603		4822 116 82487	CHIP 0Ω 5% 1/16W	NN05000610
RJ12					R604		4822 116 82487	CHIP 0Ω 5% 1/16W	NN05000610
RJ13					R605		4822 116 82487	CHIP 0Ω 5% 1/16W	NN05000610
}		4822 051 30222	CHIP 2.2kΩ 5% 1/16W	NN05222610	R606		4822 051 30223	CHIP 22kΩ 5% 1/16W	NN05223610
RJ16					R651		4822 051 30103	CHIP 10kΩ 5% 1/16W	NN05103610
RJ17		4822 051 30472	CHIP 4.7kΩ 5% 1/16W	NN05472610	R652		4822 051 30103	CHIP 10kΩ 5% 1/16W	NN05103610
RJ18		4822 051 30472	CHIP 4.7kΩ 5% 1/16W	NN05472610	R653		4822 116 82487	CHIP 0Ω 5% 1/16W	NN05000610
RJ19		4822 116 83215	CHIP 5.6kΩ 5% 1/16W	NN05562610	R654		4822 051 30472	CHIP 4.7kΩ 5% 1/16W	NN05472610
RJ20		4822 116 83215	CHIP 5.6kΩ 5% 1/16W	NN05562610	R655		4822 116 82487	CHIP 0Ω 5% 1/16W	NN05000610
RJ21		4822 051 30101	CHIP 100Ω 5% 1/16W	NN05101610	R656		4822 116 82487	CHIP 0Ω 5% 1/16W	NN05000610
RJ22		4822 051 30101	CHIP 100Ω 5% 1/16W	NN05101610	R657		4822 116 82487	CHIP 0Ω 5% 1/16W	NN05000610
RJ23		4822 051 30104	CHIP 100kΩ 5% 1/16W	NN05104610	R659		4822 051 30472	CHIP 4.7kΩ 5% 1/16W	NN05472610
RJ24		4822 051 30104	CHIP 100kΩ 5% 1/16W	NN05104610					
RJ25		4822 051 30103	CHIP 10kΩ 5% 1/16W	NN05103610	R661		4822 051 30223	CHIP 22kΩ 5% 1/16W	NN05223610
RJ26		4822 051 30103	CHIP 10kΩ 5% 1/16W	NN05103610	R662		4822 051 30473	CHIP 47kΩ 5% 1/16W	NN05473610
RJ51					R663		4822 116 82487	CHIP 0Ω 5% 1/16W	NN05000610
}		4822 116 83211	CHIP 1.8kΩ 5% 1/16W	NN05182610	R683		4822 051 30473	CHIP 47kΩ 5% 1/16W	NN05473610
RJ62					R684		4822 051 30479	CHIP 47Ω 5% 1/16W	NN05470610
RJ71					R685		4822 051 30479	CHIP 47Ω 5% 1/16W	NN05470610
}		4822 116 83211	CHIP 1.8kΩ 5% 1/16W	NN05182610	R686		4822 051 30479	CHIP 47Ω 5% 1/16W	NN05470610
RJ82					R687		4822 051 30474	CHIP 470kΩ 5% 1/16W	NN05474610
					R689		4822 051 30103	CHIP 10kΩ 5% 1/16W	NN05103610

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)	POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
R691		4822 051 30103	CHIP 10kΩ 5% 1/16W	NN05103610	Q602		9965 000 01322	IC TC7WT241FU	HC007405K0
R692		4822 051 30104	CHIP 100kΩ 5% 1/16W	NN05104610	Q603		9965 000 01323	IC TC7WT126FU	HC007305K0
R694		4822 051 30103	CHIP 10kΩ 5% 1/16W	NN05103610	Q604		9965 000 01324	IC 1M SRAM 8X128K 15NS	HC10088000
R695		4822 051 30103	CHIP 10kΩ 5% 1/16W	NN05103610	Q605		9965 000 01326	IC TCW32FU	HC10419050
R697		4822 051 30103	CHIP 10kΩ 5% 1/16W	NN05103610	Q651		4822 209 17013	IC ZR38600	HC10051990
			P604-SEMICONDUCTORS					AC-3 THX5.1 DECODER	
DE01		4822 130 10683	CHIP DIODE KV1851-TL00	HZ40003420	Q652		9965 000 01338	IC TC7SET04F	HC007205K0
DR01		4822 130 81324	CHIP DIODE 1SS302	HZ20018050	Q691		9965 000 01339	MICROPROCESSOR SUB CPU	HU300JN50F
DR02		4822 130 81324	CHIP DIODE 1SS302	HZ20018050				THX μPD78018F	
DR03		4822 130 80522	CHIP DIODE 1SS300 DAP202U	HZ21006000	Q692		9965 000 01323	IC TC7WT126FU	HC007305K0
D692		4822 130 83715	CHIP DIODE 1SS301 DAN202U	HZ21005000	Q693		4822 209 32921	IC S-80745AN	HC10048530
D693		4822 130 83715	CHIP DIODE 1SS301 DAN202U	HZ21005000	Q694		4822 209 12845	IC S-80730SN-DT-X RESET	HC10054530
								P604-MISCELLANEOUS	
QD01		9965 000 01319	IC AD1855 DAC 24BIT 96kHz	HC10013840	JE01		4822 267 10603	TERMINAL YKC21-3707	YT02011030
QD02		9965 000 01319	IC AD1855 DAC 24BIT 96kHz	HC10013840	JR01		9965 000 01340	TERMINAL RCA 2P	YT02021540
QD03		9965 000 01319	IC AD1855 DAC 24BIT 96kHz	HC10013840	JR02		4822 218 11487	OPTICAL RECIVER GP1F32R	YJ15000150
QD41		9965 000 01319	IC AD1855 DAC 24BIT 96kHz	HC10013840	JR03		4822 218 11487	OPTICAL RECIVER GP1F32R	YJ15000150
QD42		9965 000 01319	IC AD1855 DAC 24BIT 96kHz	HC10013840	JR04		4822 267 31369	OPTICAL OUTPUT GP1F32T	YJ15000090
QD43		4822 209 17526	IC TC160G11A/U305	HC10438050	JR05		4822 290 81638	TERMINAL 14X14 RA 1L1P	YT02010790
			312020050070						
QD44		4822 209 17526	IC TC160G11A/U305	HC10438050	LD01				
			312020050070		}		4822 526 10584	FERRITE CORE	FC90090010
QE01		4822 130 60669	CHIP TR.	HX300012A0	LD07			ZBF503D-00TA	
			2SC4081 Q R 2SC4116 Y GR		LD41		4822 526 10584	FERRITE CORE	FC90090010
QE02		4822 130 60669	CHIP TR.	HX300012A0				ZBF503D-00TA	
			2SC4081 Q R 2SC4116 Y GR		LD42		4822 526 10584	FERRITE CORE	FC90090010
QE03		4822 130 60669	CHIP TR.	HX300012A0				ZBF503D-00TA	
			2SC4081 Q R 2SC4116 Y GR		LD45		4822 526 10584	FERRITE CORE	FC90090010
QE04		4822 209 14876	IC MC14577C	HC10065170				ZBF503D-00TA	
QE05		4822 130 60669	CHIP TR.	HX300012A0	LD46		4822 526 10584	FERRITE CORE	FC90090010
			2SC4081 Q R 2SC4116 Y GR					ZBF503D-00TA	
QE06		4822 130 10698	CHIP TR.	HX100012A0	LD81		4822 242 73843	EMI FILTER DSS306-91-F-223Z	FM12223010
			2SA1586 Y GR 2SA1576A Q R		LD82		4822 242 73843	EMI FILTER DSS306-91-F-223Z	FM12223010
QE07		4822 130 10698	CHIP TR.	HX100012A0	LD83		4822 242 73843	EMI FILTER DSS306-91-F-223Z	FM12223010
			2SA1586 Y GR 2SA1576A Q R		LD84		4822 242 73843	EMI FILTER DSS306-91-F-223Z	FM12223010
QE08		4822 209 83357	IC NJM4560M	HC10029090	LD85		4822 242 73843	EMI FILTER DSS306-91-F-223Z	FM12223010
QE09		4822 209 17162	IC PM4007A	HC10016660	LD86		4822 242 73843	EMI FILTER DSS306-91-F-223Z	FM12223010
			AC-3 RF DEMODURATOR		LE01		4822 157 70681	CHIP INDUCTANCE 68μH	LU2683010
QE10		4822 209 14864	IC 8X32K SRAM <35NS	HC10076000				NL322522-680K	
QH01		4822 209 91175	IC NJM2114M OP AMP	HC10175090	LE02		4822 242 10582	L.C. FILTER	FF30288010
QH02		4822 209 91175	IC NJM2114M OP AMP	HC10175090				SBP-4930 2.88MHz B.P.F	
QH03		4822 209 91175	IC NJM2114M OP AMP	HC10175090	LE03		4822 242 73843	EMI FILTER DSS306-91-F-223Z	FM12223010
QH04		4822 130 61227	DIG.TRS. DTA114ES ETC	BA10001000	LE04		4822 242 73843	EMI FILTER DSS306-91-F-223Z	FM12223010
QH05		4822 130 43818	TRS. 2SC2878 A B	HT328782A0	LH01		4822 526 10584	FERRITE CORE	FC90090010
QH06		4822 130 43818	TRS. 2SC2878 A B	HT328782A0				ZBF503D-00TA	
QH51		4822 209 91175	IC NJM2114M OP AMP	HC10175090	LH02		4822 526 10584	FERRITE CORE	FC90090010
QH52		4822 209 91175	IC NJM2114M OP AMP	HC10175090				ZBF503D-00TA	
QH53		4822 209 91175	IC NJM2114M OP AMP	HC10175090	LH51		4822 526 10584	FERRITE CORE	FC90090010
								ZBF503D-00TA	
QJ01		4822 209 91175	IC NJM2114M OP AMP	HC10175090	LH52		4822 526 10584	FERRITE CORE	FC90090010
QJ02		4822 209 91175	IC NJM2114M OP AMP	HC10175090				ZBF503D-00TA	
QJ51		4822 209 91175	IC NJM2114M OP AMP	HC10175090	LJ01		4822 526 10584	FERRITE CORE	FC90090010
QJ71		4822 209 91175	IC NJM2114M OP AMP	HC10175090				ZBF503D-00TA	
QK01		9965 000 01317	IC CS5394 2CH ADC 24BIT	HC10003880	LJ02		4822 526 10584	FERRITE CORE	FC90090010
QK03		4822 209 91175	IC NJM2114M OP AMP	HC10175090				ZBF503D-00TA	
QK04		4822 209 91175	IC NJM2114M OP AMP	HC10175090	LK01		4822 526 10584	FERRITE CORE	FC90090010
QK05		4822 209 91175	IC NJM2114M OP AMP	HC10175090				ZBF503D-00TA	
QK06		4822 209 91175	IC NJM2114M OP AMP	HC10175090				ZBF503D-00TA	
QR01		9965 000 01341	IC CS8414 SPDIF RECEIVER	HC10004880	LR01		4822 142 60422	PULSE TRANSF.	TP41042030
QR02		9965 000 01342	IC TC74HC151AF	HC715100Z0				TPS247MN-0386AN	
QR03		9965 000 01342	IC TC74HC151AF	HC715100Z0	LR02		4822 242 73843	EMI FILTER DSS306-91-F-223Z	FM12223010
QR04		4822 209 30426	IC 74HC00 CMOS	HC700000Z0	L601		4822 242 73843	EMI FILTER DSS306-91-F-223Z	FM12223010
QR05		4822 209 30426	IC 74HC01 CMOS	HC700000Z0	L602		4822 242 73843	EMI FILTER DSS306-91-F-223Z	FM12223010
QR06		4822 209 32879	IC TC74HC157A	HC715705Z0	L651		4822 242 73843	EMI FILTER DSS306-91-F-223Z	FM12223010
QR07		4822 209 31568	IC 74HC04 CMOS	HC700400Z0	L691		4822 157 10884	EMI FILTER BLM11A221S	FN31000010
QR08		4822 209 90909	IC TC7W74FU D-F F	HC10400050	L692		4822 157 10884	EMI FILTER BLM11A221S	FN31000010
					L693		4822 157 10884	EMI FILTER BLM11A221S	FN31000010
					L694		4822 157 10884	EMI FILTER BLM11A221S	FN31000010
					L695		4822 157 10884	EMI FILTER BLM11A221S	FN31000010
Q601		9965 000 01321	IC YSS912	HC10014640	L696		4822 157 10884	EMI FILTER BLM11A221S	FN31000010
			DTS AC-3 DECODER						

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)	POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
L697		4822 157 10884	EMI FILTER BLM11A221S	FN31000010	C***			P804-CAPACITOR (COMMON) ELECTROLYTIC CAPACITOR ±20% : C847	
XE01		9965 000 01320	CRYSTAL 18.432MHz AT-49	JX18001260				P804-RESISTORS 2.2MΩ ±10% 1/2W FOR UL	RC10225820
X601		4822 242 10851	CRYSTAL 12.288MHz AT-49	JX12013260				100Ω ±5% 1/4W	GG05101140
X691		4822 242 81727	SERAMIC VIB. CST10.0MTW-TF01 10.0MHz	FQ01005010				1Ω ±5% 1/4W	GG05010140
			P804-PRIMARY SUPPLY CIRCUIT BOARD P804-CAPACITORS CER. 0.01μF ±20%	DK17103840	R801	/U		1.2kΩ ±5% 1W	GA05122010
CB01	/U	4822 122 33276			▲ R803		4822 050 21021	FUSE 100Ω ±2% 1/4W	NF02101140
C801					▲ R809		4822 117 10158	FUSE 100Ω ±2% 1/4W	NF02101140
∫		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310	▲ R811		4822 115 90167	FUSE 47Ω ±2% 1/4W	NF02470140
C804					▲ R812		4822 111 90731	150Ω ±5% 1/2W	GG05151120
C805		9965 000 01351	ELECT. 13000μF M 16V RE3	EA13901670	▲ R813	/U	4822 050 21501	180Ω ±5% 1/2W	GG05181120
C806		4822 124 80707	ELECT. 2200μF 25V RA-2	EA22802570	R822	/K,/N,/S	4822 050 21801	150Ω ±5 1/2W	GG05151120
C807		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310	R823	/U	4822 050 21501	180Ω ±5% 1/2W	GG05181120
C808		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310	R824	/K,/N,/S	4822 050 21801	150Ω ±5% 1/2W	GG05151120
C809		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310	R824	/U	4822 050 21501	180Ω ±5% 1/2W	GG05181120
C810		4822 124 90354	ELECT. 100μF M 16V RA-2	OA10701620	R825	/K,/N,/S	4822 050 21801	150Ω ±5% 1/2W	GG05151120
C811		4822 124 90354	ELECT. 100μF M 16V RA-2	OA10701620	R825	/U	4822 050 21501		
C812		4822 124 22571	ELECT. 10μF M 50V RA-2	OA10605020	R***			P804-RESISTORS (COMMON) CARBON FILM FIXED RES. ±5% 1/6W : R804-R807 R814-R821	
C813		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310				P804-SEMICONDUCTORS DIODE 1D3 1A 200V	HD20002710
C814		4822 124 41539	ELECT. 47μF M 16V RA-2	OA47601620	DB01	/U	4822 130 82421	DIODE D5SB-20 I=5.0A V=200V	HE20016290
C815		4822 124 90357	ELECT. 2.2μF M 50V RA-2	OA22505020	▲ DB01		4822 130 83438	DIODE D3SB-20 V=200V I=3.0A	HE20020290
C816		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310	▲ DB02		4822 130 83067	ZENER DIODE 3.9V	HD30391000
C817		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310	DB03		4822 130 80132	RD3.9ES B1 MTZJ3.9A 04AZ3.9	
C818		4822 124 41539	ELECT. 47μF M 16V RA-2	OA47601620				DIODE 1D3 1A 200V	HD20002710
C819		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310	DB04		4822 130 82421	JUMPER	75060501P0
					DB08				
C820		4822 124 90354	ELECT. 100μF M 16V RA-2	OA10701620	DB09				
C821		4822 124 90354	ELECT. 100μF M 16V RA-2	OA10701620	∫		4822 130 82421	DIODE 1D3 1A 200V	HD20002710
C822		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310	DB15				
C823		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310	DB16	/K,/N,/S		JUMPER	75060501P0
C824		4822 124 80396	ELECT. 4700μF 35V RA-2	EA47803510	DB16	/U	4822 130 82421	DIODE 1D3 1A 200V	HD20002710
C825		4822 124 80396	ELECT. 4700μF 35V RA-2	EA47803510	DB17		4822 130 82421	DIODE 1D3 1A 200V	HD20002710
C826		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310	DB18	/K,/N,/S		JUMPER	75060501P0
C827		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310	DB18	/U	4822 130 82421	DIODE 1D3 1A 200V	HD20002710
C828		4822 124 22571	ELECT. 10μF M 50V RA-2	OA10605020	DB19				
C829		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310	∫		4822 130 82421	DIODE 1D3 1A 200V	HD20002710
C830		4822 124 22571	ELECT. 10μF M 50V RA-2	OA10605020	DB22				
C831		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310	DB23		4822 130 81287	ZENER DIODE RD33F-T8 B2	HD30080060
C832		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310	DB24		4822 130 80273	ZENER DIODE 8.2V	HD30821000
C833		4822 124 22571	ELECT. 10μF M 50V RA-2	OA10605020				RD8.2ES MTZJ8.2C 04AZ8.2-Z	
C834		4822 124 22571	ELECT. 10μF M 50V RA-2	OA10605020	DB25		4822 130 82421	DIODE DIODE 1D3	HD20002710
C835		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310	DB26		4822 130 82421	DIODE DIODE 1D3	HD20002710
C836		4822 124 22571	ELECT. 10μF M 50V RA-2	OA10605020	DB27		4822 130 82421	DIODE DIODE 1D3	HD20002710
C837		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310	DB28				
C838		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310	∫		4822 130 82421	DIODE 1D3 1A 200V	HD20002710
C839		4822 124 22571	ELECT. 10μF M 50V RA-2	OA10605020	DB31				
					DB32		4822 130 32362	DIODE 1S133	HD20002000
C840		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310	DB33		4822 130 82421	DIODE 1D3 1A 200V	HD20002710
C841		4822 124 22571	ELECT. 10μF M 50V RA-2	OA10605020	DB34		4822 130 82421	DIODE 1D3 1A 200V	HD20002710
C842		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310	▲ Q804		4822 209 61533	IC NJM7806FA +6V 1A	HC38906090
C843		4822 124 22571	ELECT. 10μF M 50V RA-2	OA10605020	▲ Q805		4822 130 11605	TRS. 2SD1415	HT41415100
C844		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310	▲ Q806		4822 130 11605	TRS. 2SD1415	HT41415100
C845		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310	▲ Q807		4822 209 31864	IC NJM7915FA -15V 1A	HC39915090
C846		4822 124 90355	ELECT. 100μF M 50V RA-2	OA10705020	▲ Q808		4822 209 31864	IC NJM7915FA -15V 1A	HC39915090
C848		9965 000 01352	ELECT. 470μF 63V	EA47706310	Q809		4822 130 63635	TRS. 2SC4793 O Y	HT347932A0
C849		4822 124 22571	ELECT. 10μF M 50V RA-2	OA10605020	Q810		4822 130 61666	TRS. 2SC3419 O Y	HT334192A0
C850		4822 124 80772	ELECT. 47μF M 35V RA-2	OA47603520				40V 0.8A PC=1.2W 5W	
C853		4822 122 40617	CER. 50V DC 0.1μF +80%-20%	DD38104010	Q811		4822 130 61666	TRS. 2SC3419 O Y	HT334192A0
C854		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310	Q812		4822 130 61666	40V 0.8A PC=1.2W 5W	
C855		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310				TRS. 2SC3419 O Y	HT334192A0
C856		4822 124 41538	ELECT. 220μF 35V	OA22703520					
C857		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310					
C858		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310					

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)	POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
Q813		4822 130 41947	TRS.	HT30001000	CL11		4822 124 22571	ELECT. 10μF M 50V RA-2	OA10605020
▲ Q814		9965 000 01354	2SC2458 2SC1740S 2SC3199	HC38915030	CL23				
Q815		4822 209 15921	IC L780S15 +15V 1A	HC10077530	CL24		4822 124 41544	ELECT. 470μF M 6.3V RA-2	OA47700620
Q816		4822 130 61227	IC RESET S-806D-Z SEIKO	BA10001000	CL25				
			DIG.TRS.				4822 124 22571	ELECT. 10μF M 50V RA-2	OA10605020
Q817		4822 130 60588	DTA114ES UN4111 10K 10K	BA20001000	CL31				
			DIG.TRS.		CL32		4822 124 41544	ELECT. 470μF M 6.3V RA-2	OA47700620
			DTC114ES UN4211 10K 10K		CL33		4822 124 41544	ELECT. 470μF M 6.3V RA-2	OA47700620
▲ FB02	/K,/N,/S	4822 253 30354	P804-MISCELLANEOUS	FS10040850	CL34		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310
			FUSE T400mA 250V		CL35		4822 124 41537	ELECT. 220μF M 6.3V RA-2	OA22700620
▲ FB02	/U		BS LISTED	FS10080350	CL36		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310
			FUSE 800mA 250V		CL37		4822 124 90353	ELECT. 100μF M 10V RA-2	OA10701020
JB04	/U		UL CSA MITI	YJ04002040	CL38		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310
▲ LB01	/U	4822 280 20517	JACK 2P AC OUTLET	LY10240190	CL39		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310
LB02		4822 157 70419	RELAY VS24MB UL CSA SEM.	FN01020020	CL40		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310
▲ L801		9965 000 01353	EMI NOISE FILTER LF-4D-102	LY20240460	CL41		4822 124 90353	ELECT. 100μF M 10V RA-2	OA10701020
▲ L802		9965 000 01353	RELAY FTR-F1AA024T	LY20240460	CL42		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310
▲ L803		9965 000 01353	RELAY FTR-F1AA024T	LY20240460	CL43		4822 124 41537	ELECT. 220μF M 6.3V RA-2	OA22700620
					CL44		4822 122 40617	CER. 0.1μF 50V	DD38104010
			P874- +5VD CIRCUIT BOARD		CL46	/K,/N,/S	4822 126 10362	CER. 22PF	DA15220110
D871		4822 130 82421	DIODE 1D3 1A 200V	HD20002710	CL47	/K,/N,/S	4822 126 11553	CER. 15PF	DA15150120
▲ Q871		4822 209 31631	IC NJM7805FA +5V 1A	HC38905090	CL48	/U	4822 122 33792	CER. 10PF	DA15100120
					CL49		4822 126 11591	CER. 24pF ±5% CH 50V BLK	DD15240300
			P884- +5VA CIRCUIT BOARD		CL50		4822 126 10362	CER. 22PF	DA15220110
D881		4822 130 82421	DIODE 1D3 1A 200V	HD20002710	CL52		4822 124 41543	ELECT. 1μF M 50V RA-2	OA10505020
▲ Q881		4822 209 31631	IC NJM7805FA +5V 1A	HC38905090	CL53		4822 122 40617	CER. 0.1μF 50V	DD38104010
					CL54		4822 124 41537	ELECT. 220μF M 6.3V RA-2	OA22700620
			P894- -5V CIRCUIT BOARD		CL55		4822 124 41543	ELECT. 1μF M 50V RA-2	OA10505020
D891		4822 130 82421	DIODE 1D3 1A 200V	HD20002710	CL56		4822 124 22571	ELECT. 10μF M 50V RA-2	OA10605020
▲ Q891		4822 209 63179	IC NJM7905FA -5V 1A	HC39905090	CL57		4822 124 22571	ELECT. 10μF M 50V RA-2	OA10605020
					CL58		4822 124 22571	ELECT. 10μF M 50V RA-2	OA10605020
			PB54-PRIMARY CONNECT CIRCUIT BOARD		CL59		4822 124 41544	ELECT. 470μF M 6.3V RA-2	OA47700620
			PB54-MISCELLANEOUS		CL60		4822 124 22571	ELECT. 10μF M 50V RA-2	OA10605020
▲ FB51	/K,/N,/S	4822 071 52002	FUSE T2.0A 250V	FS20200200	CL61		4822 124 90353	ELECT. 100μF M 10V RA-2	OA10701020
▲ FB51	/U		TR5 IEC127-3	FS20200210	CL62		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310
▲ FB52	/K,/N,/S	4822 071 52002	FUSE T2A 250V TR5	FS20200200	CL63		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310
			FUSE T2.0A 250V TR5		CL64		4822 124 41537	ELECT. 220μF M 6.3V RA-2	OA22700620
▲ FB52	/U		IEC127-3	FS20200210	CL65		4822 122 40617	CER. 0.1μF +80%-20% 50V DC	DD38104010
▲ FB53	/K,/N,/S	4822 071 51602	FUSE T2A 250V TR5	FS20160200	CL66			JUMPER	75060501P0
▲ FB53	/U		FUSE T1.6A 250V	FS20160220	CL67	/U	4822 126 10362	CER. 22PF	DA15220110
▲ FB54	/K,/N,/S	4822 071 51602	FUSE 1.6A 125V	FS20160200	CL68		4822 124 41543	ELECT. 1μF M 50V RA-2	OA10505020
▲ FB54	/U		FUSE T1.6A 250V	FS20160220	CL69		4822 124 22571	ELECT. 10μF M 50V RA-2	OA10605020
▲ FB55	/K,/N,/S	4822 071 55001	FUSE 1.6A 125V	FS20160220	CL70		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310
			FUSE T500mA 250V	FS20050200	CL71			JUMPER	75060501P0
▲ FB55	/U		TR5 IEC127-3	FS20050220	CL74				
▲ FB56	/K,/N,/S	4822 071 55001	FUSE 0.5A 125V	FS20050220	CL75		4822 124 22571	ELECT. 10μF M 50V RA-2	OA10605020
			FUSE T500mA 250V		CL79		4822 124 41543	ELECT. 1μF M 50V RA-2	OA10505020
▲ FB56	/U		TR5 IEC127-3	FS20050220	CL80		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310
			FUSE 0.5A 125V		CL81		4822 124 22571	ELECT. 10μF M 50V RA-2	OA10605020
					CL82		4822 124 22571	ELECT. 10μF M 50V RA-2	OA10605020
			PB74-POWER SW. CIRCUIT BOARD		CL83		4822 124 22571	ELECT. 10μF M 50V RA-2	OA10605020
CB71		4822 122 33276	CER. 0.01μF ±20%	DK17103840	CL84		4822 125 50384	TRIM. 20pF VCT51E	CT12000200
▲ SB71		9965 000 01361	PUSH SW. POWER TV-5	SP01012470	CL86		4822 124 22571	ELECT. 10μF M 50V RA-2	OA10605020
					CX84		4822 124 22277	ELECT. 470μF M 10V	OA47701620
			PL04-CVBS VIDEO SELECTOR CIRCUIT BOARD					PL04-CAPACITORS (COMMON)	
			PL04-CAPACITORS		C***			HIGH DIELECTRIC CONSTANT	
CL01		4822 124 22571	ELECT. 10μF M 50V RA-2	OA10605020				CER. CAPACITOR ±10% 50V :	
CL02		4822 124 22571	ELECT. 10μF M 50V RA-2	OA10605020				CL51 CL76 CL77 (CL87 CL88	
CL03		4822 124 22571	ELECT. 10μF M 50V RA-2	OA10605020				CL91 CL92 CL96 CL97(/N,/S))	
CL04			JUMPER	75060501P0					
CL05		4822 124 22571	ELECT. 10μF M 50V RA-2	OA10605020				PLASTIC FILM CAPACITOR	
CL07		4822 124 22571	ELECT. 10μF M 50V RA-2	OA10605020				±5% 50V : CL78	
CL08		4822 124 22571	ELECT. 10μF M 50V RA-2	OA10605020				PL04-RESISTORS	
CL09		4822 124 22571	ELECT. 10μF M 50V RA-2	OA10605020	RL01		4822 111 41355	75Ω ±5% 1/6W	GD05750160
CL10		4822 124 22571	ELECT. 10μF M 50V RA-2	OA10605020	RL03		4822 111 41355	75Ω ±5% 1/6W	GD05750160
			JUMPER	75060501P0	RL05		4822 111 41355	75Ω ±5% 1/6W	GD05750160

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RL07		4822 111 41355	75Ω ±5% 1/6W	GD05750160	XL01	/S	4822 242 73903	CRYSTAL AT49 17.7MHz	JX17001260
RL09		4822 111 41355	75Ω ±5% 1/6W	GD05750160	XL01	/N	4822 242 73903	CRYSTAL AT49 17.7MHz	JX17001260
RV51		4822 050 21021	100Ω ±5% 1/2W	GG05101120	XL02		4822 242 80288	CRYSTAL AT49 14.31818MHz	JX14001260
R***			PL04-RESISTORS (COMMON) CARBON FILM FIXED RES. ±5% 1/6W : RL02 RL04 RL06 RL08 RL10-RL15 RL18-RL26 RL28-RL43 RV52 RV53					PL74-AUX INPUT CIRCUIT BOARD PL74-CAPACITORS CER. 470pF CHIP CER. 470pF CHIP CER. 47PF CHIP CER. 47PF CHIP	DK96471300 DK96471300 DD95470300 DD95470300
DL07		4822 130 32362	PL04-SEMICONDUCTORS DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000	CL75	/N/S	4822 126 11568	ELECT. 10pF M 50V RA-2	OA10605020
DV01		4822 130 82421	DIODE DIODE 1D3	HD20002710	CL76	/N/S	4822 126 11568	ELECT. 10pF 16V	EQ10601630
DV02		4822 130 82421	DIODE DIODE 1D3	HD20002710	CL77	/N/S	4822 122 33777	0Ω ±5% 1/4W	GD05000140
DV03		4822 130 82421	DIODE DIODE 1D3	HD20002710	CL78	/N/S	4822 122 33777	0Ω ±5% 1/4W	GD05000140
DV51		4822 130 82421	DIODE 1D3	HD20002710	CL79			CER. 0.1μF +80%-20% CHIP	DK98104200
DV52		4822 130 82421	DIODE 1D3	HD20002710	CL82		4822 124 22571	CER. 0.1μF +80%-20% CHIP	DK98104200
DV53		4822 130 32362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000	CL83				
QL01		9965 000 01371	IC MM1140XF	HC10083550	CL84		4822 124 23112	0Ω ±5% 1/4W	GD05000140
QL02		4822 209 32928	IC BA7612N VIDEO SELECTOR	HC10201210	CL88		4822 111 41305	0Ω ±5% 1/4W	GD05000140
QL03		9965 000 01372	IC BA7649A G-1 VIDEO SW	HC10179210	CL89		4822 126 11687		DK98104200
QL04		4822 209 31527	IC BA7613N	HC10202210	CL90		4822 126 11687		DK98104200
QL05		9965 000 01372	IC BA7649A G-1 VIDEO SW	HC10179210	CL91				
QL06		4822 209 31527	IC BA7613N	HC10202210	CL98		4822 111 41305	0Ω ±5% 1/4W	GD05000140
QL07		4822 209 16846	IC NJU3718L	HC10171090	RL75		4822 051 30102	PL74-RESISTORS CHIP 1kΩ ±5% 1/16W	NN05102610
QL08		4822 209 32246	IC NJM2244	HC10119090	RL76		4822 051 30102	CHIP 1kΩ ±5% 1/16W	NN05102610
QL09		4822 209 15524	3IN SW 75Ω DRIVER	HC10377030	RL77		4822 051 30473	CHIP 47kΩ ±5% 1/16W	NN05473610
QL10	/K,/N,/S	4822 130 61227	IC OSD LC74781	HC10377030	RL78		4822 051 30473	CHIP 47kΩ ±5% 1/16W	NN05473610
QL11	/K,/N,/S	4822 130 61189	DIG.TRS. DTA114ES UN4111 10K 10K	BA10001000	RL79			CHIP 47kΩ ±5% 1/16W	NN05473610
QL12	/K,/N,/S	4822 130 61189	DIG.TRS. DTC114TS UN4215 10K	BA20004000	RL82		4822 116 82487	CHIP 0Ω ±5% 1/16W	NN05000610
QL14		4822 209 32246	DIG.TRS. DTC114TS UN4215 10K	BA20004000	RL83		4822 051 30473	CHIP 47kΩ ±5% 1/16W	NN05473610
QL15		4822 209 32246	IC NJM2244	HC10119090	RL84		4822 051 30473	CHIP 47kΩ ±5% 1/16W	NN05473610
QL16		4822 130 60588	3IN SW 75Ω DRIVER	HC10119090	RL85		4822 051 30759	CHIP 75Ω ±5% 1/16W	NN05750610
QL17		4822 130 41947	DIG.TRS. DTC114ES UN4211 10K 10K	BA20001000	RL86		4822 051 30759	CHIP 75Ω ±5% 1/16W	NN05750610
QL18		4822 130 60588	TRS. 2SC2458 2SC1740S 2SC3199	HT30001000	RL88		4822 051 30759	CHIP 75Ω ±5% 1/16W	NN05750610
QL19		5322 209 71773	DIG.TRS. DTC114ES UN4211 10K 10K	BA20001000	QL75		4822 209 71451	PL74-SEMICONDUCTOR IC NJM4558M Y	HC10011090
QV51		4822 130 61227	DIG.TRS. DTA114ES UN4111 10K 10K	BA10001000	JL75		9965 000 01347	PL74-MISCELLANEOU TERMINAL RCA JACK 3P & S-TERMINAL AUX	BY04040030
QV52		4822 130 63634	TRS. 2SA1837 Q Y	HT118372A0				PM04-HDAM CIRCUIT BOARD PM04-CAPACITORS ELECT. 22μF M 16V ELECT. 22μF M 16V CER. 0.01μF +80%-20% 50V CER. 0.01μF +80%-20% 50V FILM 330pF 100V ECQ-P FILM 330pF 100V ECQ-P FILM 100pF 100V ECQ-P1101J FILM 100pF 100V ECQ-P1101J ELECT. 10pF M 50V RA-2 ELECT. 10pF M 50V RA-2 ELECT. 100μF M 16V RA-2 ELECT. 100μF M 16V RA-2	OA22601620 OA22601620 DK18103310 DK18103310 OF15331540 OF15331540 OF15101540 OF15101540 OA10605020 OA10605020 OA10701620 OA10701620
JL01		4822 265 31299	PL04-MISCELLANEOUS TERMINAL 3P RCA YELLOW	YT02030340	CM21		4822 124 90358		
JL02		4822 265 31299	TERMINAL 3P RCA YELLOW	YT02030340	CM22		4822 124 90358		
JL03		4822 265 31299	TERMINAL 3P RCA YELLOW	YT02030340	CM23		4822 122 30043		
JL04		4822 265 31045	TERMINAL YKC21-3081	YT02021080	CM24		4822 122 30043		
JL05		4822 290 81598	TERMINAL 2P RCA GOLD	YT02021130	CM25		4822 126 14166		
JL12		4822 265 31045	TERMINAL YKC21-3081	YT02021080	CM26		4822 126 14166		
LL01		4822 157 62922	CHOKE COIL 33μH J	LC13333800	CM27		4822 121 70543		
LL02		4822 242 73843	EMI FILTER DSS306-91-F-223Z	FM12223010	CM28		4822 121 70543		
LL03			JUMPER	75060501P0	CM29		4822 124 22571		
LL08					CM30		4822 124 22571		
LV01		4822 280 20501	RELAY MR62-24SR 24V	LY20240410	CM31		4822 124 90354		
LV02		4822 280 20501	RELAY MR62-24SR 24V	LY20240410	CM32		4822 124 90354		
LV03		4822 280 20501	RELAY MR62-24SR 24V	LY20240410	R***			PM04-RESISTORS (COMMON) CARBON FILM FIXED RES. ±5% 1/6W : RM21-RM24 RM27-RM40	
XL01	/K	4822 242 73903	CRYSTAL AT49 17.7MHz	JX17001260	DM21		4822 130 32362	PM04-SEMICONDUCTORS DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
					DM22		4822 130 32362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000

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QM21		4822 130 42949	TRS. 2SA970	HT109702A0	CS84		4822 122 40617	CER. 0.1μF +80%-20% 50V DC	DD38104010
QM22		4822 130 42949	TRS. 2SA970	HT109702A0	CS85		4822 122 40617	CER. 0.1μF +80%-20% 50V DC	DD38104010
QM23		4822 130 43233	TRS. 2SC2240	HT322402A0	CS86		4822 124 90354	ELECT. 100μF M 16V RA-2	OA10701620
QM24		4822 130 43233	TRS. 2SC2240	HT322402A0	CS87		4822 124 90354	ELECT. 100μF M 16V RA-2	OA10701620
QM25		4822 130 43283	TRS. 2SC2705 O Y	HT327052A0	CS88		4822 122 40617	CER. 0.1μF +80%-20% 50V DC	DD38104010
QM26		4822 130 43283	TRS. 2SC2705 O Y	HT327052A0	CS89		4822 124 22274	ELECT. 4.7μF M 50V RA-2	OA47505020
QM27		4822 130 42999	TRS. 2SA1145 O Y	HT111452A0	CS90		4822 124 22274	ELECT. 4.7μF M 50V RA-2	OA47505020
QM28		4822 130 42999	TRS. 2SA1145 O Y	HT111452A0	CS93	/N,/S	4822 122 31205	CER. 47pF ±5% CH 50V BLK	DD15470300
QM29			UNIT & H-IC NEW HDAM	KH269J1010	CS94	/N,/S	4822 122 31205	CER. 47pF ±5% CH 50V BLK	DD15470300
QM30			UNIT & H-IC NEW HDAM	KH269J1010	CS97		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310
					CS98		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310
					CS99		4822 122 40617	CER. 0.1μF 50V	DD38104010
			PS04-A-FUNC PRE SUPPLY CIRCUIT BOARD KIT PS04-CAPACITORS					PS04-CAPACITORS (COMMON) HIGH DIELECTRIC CONSTANT CER. CAPACITOR ±10% 50V : (CG07 CG08/N,/S) CQ06 CQ07 (CS37-CS54 CS71 CS72 CS91 CS92 CS95 CS96/N,/S))	
CG01					C***				
CG06		4822 124 22274	ELECT. 4.7μF M 50V RA-2	OA47505020					
CG09		4822 124 22277	ELECT. 470μF M 16V	OA47701620					
CQ01			JUMPER	75060501P0					
CQ02			JUMPER	75060501P0					
CQ03			JUMPER	75060501P0					
CQ08		4822 122 40617	CER. 0.1μF 50V	DD38104010	RG15		4822 115 90166	FUSE 10Ω ±2% 1/4W	NF02100140
CQ09	/N,/S	4822 122 31205	CER. 47pF ±5% CH 50V BLK	DD15470300	RG96			JUMPER	
CQ10	/N,/S	4822 122 31205	CER. 47pF ±5% CH 50V BLK	DD15470300	RG67			JUMPER	
								PS04-RESISTORS (COMMON) CARBON FILM FIXED RES. ±5% 1/6W : RG01-RG14 RG16-RG20 RQ25-RQ30 RS01-RS95 RS98 RS99	
CS01					R***				
CS14		4822 124 41539	ELECT. 47μF M 16V RA-2	OA47601620					
CS15		4822 124 22571	ELECT. 10μF M 16V RA-2	OA10605020					
CS16		4822 124 22571	ELECT. 10μF M 16V RA-2	OA10605020					
CS17		4822 124 90358	ELECT. 22μF M 16V RA-2	OA22601620					
CS18		4822 124 90358	ELECT. 22μF M 16V RA-2	OA22601620	DG01		4822 130 82421	DIODE 1D3 1A 200V	HD20002710
CS19					DG02		4822 130 32362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
CS22		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310	DG03		4822 130 32362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
CS23		4822 124 90354	ELECT. 100μF M 16V RA-2	OA10701620	DS01		4822 130 32362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
CS24		4822 124 90354	ELECT. 100μF M 16V RA-2	OA10701620	DS02		4822 130 32362	DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
CS25									
CS28		4822 124 41539	ELECT. 47μF M 16V RA-2	OA47601620					
CS29		4822 124 22274	ELECT. 4.7μF M 50V RA-2	OA47505020					
CS30		4822 124 22274	ELECT. 4.7μF M 50V RA-2	OA47505020	QG01		9965 000 01359	IC ELE VOL TC9459N	HC10443050
CS31		4822 124 41539	ELECT. 47μF M 16V RA-2	OA47601620	QG02		4822 209 83631	IC NJM4558D-D	HC10008090
CS32		4822 124 41539	ELECT. 47μF M 16V RA-2	OA47601620	QG03		4822 130 63634	TRS. 2SA1837 Q Y	HT118372A0
CS33		4822 124 22274	ELECT. 4.7μF M 50V RA-2	OA47505020	QG04		4822 130 61227	DIG.TRS.	BA10001000
CS34		4822 124 22274	ELECT. 4.7μF M 50V RA-2	OA47505020				DTA114ES UN4111 10K 10K	
CS35		4822 124 41539	ELECT. 47μF M 16V RA-2	OA47601620	QG05		4822 130 43818	TRS. 2SC2878 A OR BRANK	HT328782A0
CS36		4822 124 41539	ELECT. 47μF M 16V RA-2	OA47601620	QG06		4822 130 43818	TRS. 2SC2878 A OR BRANK	HT328782A0
CS55	/N,/S	4822 122 31205	CER. 47pF ±5% CH 50V BLK	DD15470300	QG07		4822 130 61227	DIG.TRS.	BA10001000
CS56	/N,/S	4822 122 31205	CER. 47pF ±5% CH 50V BLK	DD15470300				DTA114ES UN4111 10K 10K	
CS57		4822 124 90354	ELECT. 100μF M 16V RA-2	OA10701620	QS01				
CS58		4822 124 90354	ELECT. 100μF M 16V RA-2	OA10701620	QS11		4822 209 83631	IC NJM4558D-D	HC10008090
CS59					QS12		4822 209 32552	IC LC78211	HC10308030
CS62	/N,/S	4822 122 31205	CER. 47pF ±5% CH 50V BLK	DD15470300	QS13		4822 209 32553	IC LC78212	HC10309030
CS63		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310	QS14		4822 209 32553	IC LC78212	HC10309030
CS64		4822 122 30043	CER. 0.01μF +80%-20% 50V	DK18103310	QS15		4822 209 32552	IC LC78211	HC10308030
CS65					QS16		4822 130 61227	DIG.TRS.	BA10001000
CS70	/N,/S	4822 122 31205	CER. 47pF ±5% CH 50V BLK	DD15470300				DTA114ES UN4111 10K 10K	
CS73	/N,/S				QS17		4822 130 43818	TRS. 2SC2878 A OR BRANK	HT328782A0
CS75		4822 122 31205	CER. 47pF ±5% CH 50V BLK	DD15470300	QS18		4822 130 43818	TRS. 2SC2878 A OR BRANK	HT328782A0
CS79	/N,/S	4822 122 31205	CER. 47pF ±5% CH 50V BLK	DD15470300	QS19		4822 130 43818	TRS. 2SC2878 A OR BRANK	HT328782A0
					QS20		4822 130 43818	TRS. 2SC2878 A OR BRANK	HT328782A0
CS80	/N,/S	4822 122 31205	CER. 47pF ±5% CH 50V BLK	DD15470300	QS21		4822 130 61227	DIG.TRS.	BA10001000
CS81			JUMPER	75060501P0	QS22		4822 130 61227	DIG.TRS.	BA10001000
CS82			JUMPER	75060501P0	QS23		4822 130 43818	TRS. 2SC2878 A OR BRANK	HT328782A0
CS83			JUMPER	75060501P0	QS24		4822 130 43818	TRS. 2SC2878 A OR BRANK	HT328782A0

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)	POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
LW51		9965 000 01343	PW54-MISCELLANEOUS RELAY MR62-12SR	LY20120510	DY01 }		4822 130 80522	PY04-SEMICONDUCTORS CHIP DIODE 1SS300 DAP202U	HZ21006000
CY01		4822 126 11687	PY04-U-COM CIRCUIT BOARD PY04-CAPACITORS CER. 0.1μF +80%-20% CHIP	DK98104200	DY04				
CY02		4822 124 23056	ELECT. 47μF 10V	EJ47601010	QY01		9965 000 01345	MICROPROCESSOR MAIN TMP93CW40DF	HU300JT00F
CY04		5322 126 11583	CER. 0.01μF ±10% B 25V CHIP	DK96103200	QY02		4822 130 41947	TRS. 2SC2458 2SC1740S 2SC3199	HT30001000
CY07		4822 126 13303	CER. 1μF 10V F CHIP	DK98105200	QY03		4822 130 61227	DIG.TRS. DTA114ES UN4111 10K 10K	BA10001000
CY08		5322 126 11583	CER. 0.01μF ±10% B 25V CHIP	DK96103200	QY04		4822 130 42594	DIG.TRS. DTC114ES UN4213 47K 47K	BA20002000
CY09		5322 126 11583	CER. 0.01μF ±10% B 25V CHIP	DK96103200	QY05		4822 130 61227	DIG.TRS. DTA114ES UN4111 10K 10K	BA10001000
CY10		5322 126 11583	CER. 0.01μF ±10% B 25V CHIP	DK96103200	QY06		4822 130 61227	DIG.TRS. DTA114ES UN4111 10K 10K	BA10001000
CY11		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200	QY07		4822 130 60588	DIG.TRS. DTA114ES UN4211 10K 10K	BA20001000
CY12		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200	QY08		4822 130 61227	DIG.TRS. DTA114ES UN4111 10K 10K	BA10001000
CY13		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200	QY09		4822 130 60588	DIG.TRS. DTC114ES UN4211 10K 10K	BA20001000
CY19		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200	QY10		4822 130 61227	DIG.TRS. DTA114ES UN4111 10K 10K	BA10001000
CY25		5322 126 11578	CER. 1000pF ±10% B 50V CHIP	DK96102300	QY11		4822 130 41947	TRS. 2SC2458 2SC1740S 2SC3199	HT30001000
CY26		4822 126 11687	CER. 0.1μF +80%-20% CHIP	DK98104200	QY12		4822 130 41947	TRS. 2SC2458 2SC1740S 2SC3199	HT30001000
CY30		4822 124 11879	BIG ELECT. 1F 5.5V DB-5R5D105	EX10500530	QY13		4822 130 60588	DIG.TRS. DTC114ES UN4211 10K 10K	BA20001000
RY01		4822 051 30479	PY04-RESISTORS CHIP 47Ω ±5% 1/16W	NN05470610	QY14		4822 130 61227	DIG.TRS. DTA114ES UN4111 10K 10K	BA10001000
RY02		4822 116 83819	CHIP 18kΩ ±5% 1/16W	NN05183610	QY15		4822 209 12845	IC S-80730SN-DT-X RESET	HC10054530
RY03		4822 051 30473	CHIP 47kΩ ±5% 1/16W	NN05473610	JY01		4822 265 61202	PY04-MISCELLANEOUS JACK HLEM33S-1 33PIN FFC	YJ06011030
RY04		4822 051 30473	CHIP 47kΩ ±5% 1/16W	NN05473610	XY01		9965 000 01346	SERAMIC VIB. CST20.00MXW0H1 20MHz	FQ02005030
RY05		4822 051 30473	CHIP 47kΩ ±5% 1/16W	NN05473610				PY64-CONNECT CIRCUIT BOARD PY64-CAPACITOR ELECT. 47μF M 16V RA-2	OA47601620
RY06		4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610				PY64-RESISTORS (COMMON) CARBON FILM FIXED RES. ±5% 1/6W : RY61-RY63 RY69 RU91	
RY11		4822 051 30105	CHIP 1MΩ ±5% 1/16W	NN05105610				PY64-SEMICONDUCTORS ZENER DIODE MTZJ3.0B	HD30301000
RY12		4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610				DIODE 1SS176 MA165 1SS254 30V 0.1A	HD20002000
RY13		4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610				DIG.TRS. DTA144ES UN4113 47K 47K	BA10002000
RY14	/K,/S	4822 051 30473	CHIP 47kΩ ±5% 1/16W	NN05473610				TRS. 2SC2458 2SC1740S 2SC3199	HT30001000
RY15	/N,/U	4822 116 82487	CHIP 0Ω ±5% 1/16W	NN05000610				DIG.TRS. DTA114ES UN4111 10K 10K	BA10001000
RY16	/K,/S	4822 051 30473	CHIP 47kΩ ±5% 1/16W	NN05473610				TRS. 2SC2458 2SC1740S 2SC3199	HT30001000
RY17	/N,/U	4822 116 82487	CHIP 0Ω ±5% 1/16W	NN05000610				DIG.TRS. DTA114ES UN4111 10K 10K	BA10001000
RY18		4822 051 30473	CHIP 47kΩ ±5% 1/16W	NN05473610				TRS. 2SC2458 2SC1740S 2SC3199	HT30001000
RY21		4822 116 82487	CHIP 0Ω ±5% 1/16W	NN05000610				DIG.TRS. DTC114ES UN4211 10K 10K	BA20001000
RY22	/N,/S	4822 051 30473	CHIP 47kΩ ±5% 1/6W	NN05473610					
RY23	/K,/U	4822 116 82487	CHIP 0Ω ±5% 1/16W	NN05000610					
RY24		4822 051 30472	CHIP 4.7kΩ ±5% 1/16W	NN05472610					
RY25		4822 051 30472	CHIP 4.7kΩ ±5% 1/16W	NN05472610					
RY27		4822 051 30472	CHIP 4.7kΩ ±5% 1/16W	NN05472610					
RY31		4822 116 82487	CHIP 0Ω ±5% 1/16W	NN05000610					
RY32		4822 116 82487	CHIP 0Ω ±5% 1/16W	NN05000610					
RY33		4822 116 82487	CHIP 0Ω ±5% 1/16W	NN05000610					
RY34		4822 116 82487	CHIP 0Ω ±5% 1/16W	NN05000610					
RY35		4822 051 30221	CHIP 220Ω ±5% 1/16W	NN05221610					
RY36		4822 116 82487	CHIP 0Ω ±5% 1/16W	NN05000610					
RY37		4822 116 82487	CHIP 0Ω ±5% 1/16W	NN05000610					
RY38		4822 051 30221	CHIP 220Ω ±5% 1/16W	NN05221610					
RY45		4822 116 82487	CHIP 0Ω ±5% 1/16W	NN05000610					
RY46		4822 116 82487	CHIP 0Ω ±5% 1/16W	NN05000610					
RY56		4822 051 30473	CHIP 47kΩ ±5% 1/16W	NN05473610					
RY57		4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610					
RY58		4822 051 30683	CHIP 68kΩ ±5% 1/16W	NN05683610					
RY59		4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610					
RY60		4822 051 30273	CHIP 27kΩ ±5% 1/16W	NN05273610					
RY64		4822 051 30221	CHIP 220Ω ±5% 1/16W	NN05221610					
RY65		4822 051 30221	CHIP 220Ω ±5% 1/16W	NN05221610					
RY66		4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610					
RY67		4822 051 30273	CHIP 27kΩ ±5% 1/16W	NN05273610					
RY68		4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610					
RY70	/S	4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610					
RY70	/N	4822 051 30103	CHIP 10kΩ ±5% 1/16W	NN05103610					
								PY64-MISCELLANEOUS JACK HLEM33S-1 33PIN FFC JUMPER LEAD 33P-200 P1.25 SMCD-33X200	YJ06011030 YU33200510

[illegible]

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)	
QX04	/K,/N,/S	4822 130 63211	DIG.TRS.	BA10004000	
QX05			DTA114TS UN4115 10K		
QX07		4822 130 60588	DIG.TRS. DTC114ES UN4211 10K 10K	BA20001000	
QZ01	/K,/N,/S	9965 000 01371	IC MM1140XF	HC10083550	
QZ02		4822 209 32928	IC BA7612N VIDEO SELECTOR	HC10201210	
QZ03		9965 000 01371	IC MM1140XF	HC10083550	
QZ04		4822 209 32928	IC BA7612N	HC10201210	
QZ05		9965 000 01372	IC BA7649A G-1 VIDEO SW	HC10179210	
QZ06		4822 209 31527	IC BA7613N	HC10202210	
QZ07		9965 000 01372	IC BA7649A G-1 VIDEO SW	HC10179210	
QZ08		4822 209 32928	IC BA7612N	HC10201210	
QZ09		4822 209 32246	IC NJM2244 3IN SW 75 DRIVER	HC10119090	
QZ10		9965 000 01379	IC NJM2263D	HC10198090	
QZ11		4822 209 15524	IC OSD LC74781	HC10377030	
QZ12		4822 130 61227	DIG.TRS. DTA114ES ETC	BA10001000	
QZ13		4822 130 61189	DIG.TRS. DTC114TS UN4215 10K	BA20004000	
QZ14		4822 130 61189	DIG.TRS. DTC114TS UN4215 10K	BA20004000	
QZ16		4822 209 31527	IC BA7613N	HC10202210	
QZ17		4822 209 31527	IC BA7613N VIDEO SELECTOR	HC10202210	
QZ18		4822 209 31527	IC BA7613N VIDEO SELECTOR	HC10202210	
QZ19		4822 209 32246	IC NJM2244 3IN SW 75 DRIVER	HC10119090	
QZ20	/K,/N,/S	9965 000 01379	IC NJM2263D	HC10198090	
QZ21		4822 130 60588	DIG.TRS. DTC114ES UN4211 10K 10K	BA20001000	
QZ22		9965 000 01379	IC 74HC4051 C-MOS	HC705100B0	
QZ23		4822 209 83088	IC NJM2903D DUAL COMPARATOR	HC10022090	
QZ24		4822 130 61227	DIG.TRS. DTA114ES ETC	BA10001000	
QZ25		4822 130 61227	DIG.TRS. DTA114ES ETC	BA10001000	
QZ26		4822 130 41947	TRS. 2SC2458 2SC1740S 2SC3199	HT30001000	
QZ27		4822 130 60588	DIG.TRS. DTC114ES UN4211 10K 10K	BA20001000	
QZ28		9965 000 01381	IC 74HC32A QUAD 2-INPUT OR GATE	HC703200B0	
QZ29		5322 209 71773	IC 74HC132	HC713205D0	
PZ04-MISCELLANEOUS					
JZ01		9965 000 01375	TERMINAL 3P S-TERM GOLD	YT02030550	
JZ02		9965 000 01376	TERMINAL 2P S-TERM GOLD	YT02021520	
JZ03		9965 000 01375	TERMINAL 3P S-TERM GOLD	YT02030550	
JZ04		9965 000 01377	TERMINAL 6P RCA COMP VIDEO GOLD G B R	YT02060640	
JZ05		9965 000 01378	TERMINAL 3P RCA COMP VIDEO GOLD G B R	YT02030540	
LX01	/K,/N,/S	4822 157 62909	CHOKE COIL 22μH	LC12233800	
LZ01		4822 157 62922	CHOKE COIL 33μH J	LC13333800	
LZ02		4822 242 73843	EMI FILTER DSS306-91-F-223Z	FM12223010	
LZ03		4822 242 73843	EMI FILTER DSS306-91-F-233Z	FM12223010	
XZ01		4822 242 73903	CRYSTAL AT49 17.7MHz	JX17001260	
XZ02		4822 242 80288	CRYSTAL AT49 14.31818MHz	JX14001260	